



SEQUENCE LISTING

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<120> Treatment of SARS in individuals

<130> P 774 US00

<140> PCT/DK 04/000266

<141> 2004-04-08

<160> 137

<170> PatentIn version 3.1

<210> 1

<211> 652

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Thr Ser Met Gly Leu Leu Leu Leu Leu Leu Leu Thr
1 5 10 15

Gln Pro Gly Ala Gly Thr Gly Ala Asp Thr Glu Ala Val Val Cys Val
20 25 30

Gly Thr Ala Cys Tyr Thr Ala His Ser Gly Lys Leu Ser Ala Ala Glu
35 40 45

Ala Gln Asn His Cys Asn Gln Asn Gly Gly Asn Leu Ala Thr Val Lys
50 55 60

Ser Lys Glu Glu Ala Gln His Val Gln Arg Val Leu Ala Gln Leu Leu
65 70 75 80

Arg Arg Glu Ala Ala Leu Thr Ala Arg Met Ser Lys Phe Trp Ile Gly
85 90 95

Leu Gln Arg Glu Lys Gly Lys Cys Leu Asp Pro Ser Leu Pro Leu Lys
100 105 110

Gly Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Pro Tyr Ser Asn Trp
115 120 125

His Lys Glu Leu Arg Asn Ser Cys Ile Ser Lys Arg Cys Val Ser Leu
 130 135 140

Leu Leu Asp Leu Ser Gln Pro Leu Leu Pro Ser Arg Leu Pro Lys Trp
 145 150 155 160

Ser Glu Gly Pro Cys Gly Ser Pro Gly Ser Pro Gly Ser Asn Ile Glu
 165 170 175

Gly Phe Val Cys Lys Phe Ser Phe Lys Gly Met Cys Arg Pro Leu Ala
 180 185 190

Leu Gly Gly Pro Gly Gln Val Thr Tyr Thr Thr Pro Phe Gln Thr Thr
 195 200 205

Ser Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Ala Ala Asn Val Ala
 210 215 220

Cys Gly Glu Gly Asp Lys Asp Glu Thr Gln Ser His Tyr Phe Leu Cys
 225 230 235 240

Lys Glu Lys Ala Pro Asp Val Phe Asp Trp Gly Ser Ser Gly Pro Leu
 245 250 255

Cys Val Ser Pro Lys Tyr Gly Cys Asn Phe Asn Asn Gly Gly Cys His
 260 265 270

Gln Asp Cys Phe Glu Gly Gly Asp Gly Ser Phe Leu Cys Gly Cys Arg
 275 280 285

Pro Gly Phe Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn
 290 295 300

Pro Cys Ser Ser Ser Pro Cys Arg Gly Gly Ala Thr Cys Val Leu Gly
 305 310 315 320

Pro His Gly Lys Asn Tyr Thr Cys Arg Cys Pro Gln Gly Tyr Gln Leu
 325 330 335

Asp Ser Ser Gln Leu Asp Cys Val Asp Val Asp Glu Cys Gln Asp Ser
 340 345 350

Pro Cys Ala Gln Glu Cys Val Asn Thr Pro Gly Gly Phe Arg Cys Glu
 355 360 365

Cys Trp Val Gly Tyr Glu Pro Gly Gly Pro Gly Glu Gly Ala Cys Gln
 370 375 380

Asp Val Asp Glu Cys Ala Leu Gly Arg Ser Pro Cys Ala Gln Gly Cys
 385 390 395 400

Thr Asn Thr Asp Gly Ser Phe His Cys Ser Cys Glu Glu Gly Tyr Val
 405 410 415

Leu Ala Gly Glu Asp Gly Thr Gln Cys Gln Asp Val Asp Glu Cys Val
 420 425 430

Gly Pro Gly Gly Pro Leu Cys Asp Ser Leu Cys Phe Asn Thr Gln Gly
 435 440 445

Ser Phe His Cys Gly Cys Leu Pro Gly Trp Val Leu Ala Pro Asn Gly
 450 455 460

Val Ser Cys Thr Met Gly Pro Val Ser Leu Gly Pro Pro Ser Gly Pro
 465 470 475 480

Pro Asp Glu Glu Asp Lys Gly Glu Lys Glu Gly Ser Thr Val Pro Arg
 485 490 495

Ala Ala Thr Ala Ser Pro Thr Arg Gly Pro Glu Gly Thr Pro Lys Ala
 500 505 510

Thr Pro Thr Thr Ser Arg Pro Ser Leu Ser Ser Asp Ala Pro Ile Thr
 515 520 525

Ser Ala Pro Leu Lys Met Leu Ala Pro Ser Gly Ser Pro Gly Val Trp
 530 535 540

Arg Glu Pro Ser Ile His His Ala Thr Ala Ala Ser Gly Pro Gln Glu
 545 550 555 560

Pro Ala Gly Gly Asp Ser Ser Val Ala Thr Gln Asn Asn Asp Gly Thr
 565 570 575

Asp Gly Gln Lys Leu Leu Leu Phe Tyr Ile Leu Gly Thr Val Val Ala
 580 585 590

Ile Leu Leu Leu Leu Ala Leu Ala Leu Gly Leu Leu Val Tyr Arg Lys
595 600 605

Arg Arg Ala Lys Arg Glu Glu Lys Lys Glu Lys Lys Pro Gln Asn Ala
610 615 620

Ala Asp Ser Tyr Ser Trp Val Pro Glu Arg Ala Glu Ser Arg Ala Met
625 630 635 640

Glu Asn Gln Tyr Ser Pro Thr Pro Gly Thr Asp Cys
645 650

<210> 2
<211> 742
<212> PRT
<213> Mus musculus

<400> 2

Met Lys Asp Asp Phe Ala Glu Glu Glu Glu Val Gln Ser Phe Gly Tyr
1 5 10 15

Lys Arg Phe Gly Ile Gln Glu Gly Thr Gln Cys Thr Lys Cys Lys Asn
20 25 30

Asn Trp Ala Leu Lys Phe Ser Ile Val Leu Leu Tyr Ile Leu Cys Ala
35 40 45

Leu Leu Thr Ile Thr Val Ala Ile Leu Gly Tyr Lys Val Val Glu Lys
50 55 60

Met Asp Asn Val Thr Asp Gly Met Glu Thr Ser His Gln Thr Tyr Asp
65 70 75 80

Asn Lys Leu Thr Ala Val Glu Ser Asp Leu Lys Lys Leu Gly Asp Gln
85 90 95

Ala Gly Lys Lys Ala Leu Ser Thr Asn Ser Glu Leu Ser Thr Phe Arg
100 105 110

Ser Asp Ile Leu Asp Leu Arg Gln Gln Leu Gln Glu Ile Thr Glu Lys
115 120 125

Thr Ser Lys Asn Lys Asp Thr Leu Glu Lys Leu Gln Ala Asn Gly Asp
130 135 140

Ser Leu Val Asp Arg Gln Ser Gln Leu Lys Glu Thr Leu Gln Asn Asn
 145 150 155 160

Ser Phe Leu Ile Thr Thr Val Asn Lys Thr Leu Gln Ala Tyr Asn Gly
 165 170 175

Tyr Val Thr Asn Leu Gln Gln Asp Thr Ser Val Leu Gln Gly Asn Leu
 180 185 190

Gln Ser Gln Met Tyr Ser Gln Ser Val Val Ile Met Asn Leu Asn Asn
 195 200 205

Leu Asn Leu Thr Gln Val Gln Gln Arg Asn Leu Ile Ser Asn Leu Gln
 210 215 220

Gln Ser Val Asp Asp Thr Ser Leu Ala Ile Gln Arg Ile Lys Asn Asp
 225 230 235 240

Phe Gln Asn Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp
 245 250 255

Trp Leu Lys Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn
 260 265 270

Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser
 275 280 285

Gln Leu Ser Ser Phe Thr Gly Gln Met Asp Asn Ile Thr Thr Ile Ser
 290 295 300

Gln Ala Asn Glu Gln Ser Leu Lys Asp Leu Gln Asp Leu His Lys Asp
 305 310 315 320

Thr Glu Asn Arg Thr Ala Val Lys Phe Ser Gln Leu Glu Glu Arg Phe
 325 330 335

Gln Val Phe Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr
 340 345 350

Thr Ala His His Leu Arg Thr Leu Thr Ser Asn Leu Asn Asp Val Arg
 355 360 365

Thr Thr Cys Thr Asp Thr Leu Thr Arg His Thr Asp Asp Leu Thr Ser

370

375

380

Leu Asn Asn Thr Leu Val Asn Ile Arg Leu Asp Ser Ile Ser Leu Arg
 385 390 395 400

Met Gln Gln Asp Met Met Arg Ser Lys Leu Asp Thr Glu Val Ala Asn
 405 410 415

Leu Ser Val Val Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly
 420 425 430

Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg
 435 440 445

Gly Pro Lys Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly
 450 455 460

Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro
 465 470 475 480

Ala Gly Glu Arg Gly Thr Ile Gly Pro Val Gly Pro Pro Gly Glu Arg
 485 490 495

Gly Ser Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly
 500 505 510

Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro
 515 520 525

Pro Gly Pro Pro Gly Lys Asp Gly Leu Pro Gly Pro Gln Gly Pro Pro
 530 535 540

Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly
 545 550 555 560

Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro
 565 570 575

Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Met Glu Pro Leu
 580 585 590

Ala Leu Gln Asn Glu Pro Thr Pro Ala Ser Glu Val Asn Gly Cys Pro
 595 600 605

Pro His Trp Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser Leu Glu
610 615 620

Lys Glu Ile Phe Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys Ser Ser
625 630 635 640

His Leu Val Phe Ile Asn Ser Arg Glu Glu Gln Gln Trp Ile Lys Lys
645 650 655

His Thr Val Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp Ser Glu
660 665 670

Gln Glu Ser Glu Trp Lys Trp Leu Asp Gly Ser Pro Val Asp Tyr Lys
675 680 685

Asn Trp Lys Ala Gly Gln Pro Asp Asn Trp Gly Ser Gly His Gly Pro
690 695 700

Gly Glu Asp Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn Asp Phe
705 710 715 720

Gln Cys Asp Glu Ile Asn Asn Phe Ile Cys Glu Lys Glu Arg Glu Ala
725 730 735

Val Pro Ser Ser Ile Leu
740

<210> 3
<211> 371
<212> PRT
<213> Bos taurus

<400> 3

Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Thr Gln Pro Trp
1 5 10 15

Arg Ser Leu Gly Ala Glu Met Lys Ile Tyr Ser Gln Lys Thr Leu Ala
20 25 30

Asn Gly Cys Thr Leu Val Val Cys Arg Pro Pro Glu Gly Gly Leu Pro
35 40 45

Gly Arg Asp Gly Gln Asp Gly Arg Glu Gly Pro Gln Gly Glu Lys Gly
50 55 60

Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Arg Pro Gly Pro
65 70 75 80

Ala Gly Pro Ile Gly Pro Lys Gly Asp Asn Gly Ser Ala Gly Glu Pro
85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Pro Gly Pro Pro Gly Met Pro Gly
100 105 110

Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro
115 120 125

Pro Gly Thr Pro Gly Pro Lys Gly Asp Thr Gly Pro Lys Gly Gly Met
130 135 140

Gly Ala Pro Gly Met Gln Gly Ser Pro Gly Pro Ala Gly Leu Lys Gly
145 150 155 160

Glu Arg Gly Ala Pro Gly Glu Leu Gly Ala Pro Gly Ser Ala Gly Val
165 170 175

Ala Gly Pro Ala Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg
180 185 190

Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly Glu Arg Gly
195 200 205

Ala Lys Gly Glu Ser Gly Leu Ala Asp Val Asn Ala Leu Lys Gln Arg
210 215 220

Val Thr Ile Leu Glu Gly Gln Leu Gln Arg Leu Gln Asn Ala Phe Ser
225 230 235 240

Arg Tyr Lys Lys Ala Val Leu Phe Pro Asp Gly Gln Ala Val Gly Lys
245 250 255

Lys Ile Phe Lys Thr Ala Gly Ala Val Lys Ser Tyr Ser Asp Ala Gln
260 265 270

Gln Leu Cys Arg Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ala
275 280 285

Ala Glu Asn Glu Ala Val Ala Gln Leu Val Arg Ala Lys Asn Asn Asp
 290 295 300

Ala Phe Leu Ser Met Asn Asp Ile Ser Thr Glu Gly Lys Phe Thr Tyr
 305 310 315 320

Pro Thr Gly Glu Ser Leu Val Tyr Ser Asn Trp Ala Ser Gly Glu Pro
 325 330 335

Asn Asn Asn Asn Ala Gly Gln Pro Glu Asn Cys Val Gln Ile Tyr Arg
 340 345 350

Glu Gly Lys Trp Asn Asp Val Pro Cys Ser Glu Pro Leu Leu Val Ile
 355 360 365

Cys Glu Phe
 370

<210> 4
 <211> 371
 <212> PRT
 <213> Bos taurus

<400> 4

Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Leu Thr Gln Pro Trp
 1 5 10 15

Arg Ser Leu Gly Ala Glu Met Lys Ile Tyr Ser Gln Lys Thr Leu Ala
 20 25 30

Asn Gly Cys Thr Leu Val Val Cys Arg Pro Pro Glu Gly Gly Leu Pro
 35 40 45

Gly Arg Asp Gly Gln Asp Gly Arg Glu Gly Pro Gln Gly Glu Lys Gly
 50 55 60

Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Arg Pro Gly Pro
 65 70 75 80

Ala Gly Pro Ile Gly Pro Lys Gly Asp Asn Gly Ser Ala Gly Glu Pro
 85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Pro Gly Pro Pro Gly Met Pro Gly
 100 105 110

Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro
115 120 125

Pro Gly Thr Pro Gly Pro Lys Gly Asp Thr Gly Pro Lys Gly Gly Met
130 135 140

Gly Ala Pro Gly Met Gln Gly Ser Pro Gly Pro Ala Gly Leu Lys Gly
145 150 155 160

Glu Arg Gly Ala Pro Gly Glu Leu Gly Ala Pro Gly Ser Ala Gly Val
165 170 175

Ala Gly Pro Ala Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg
180 185 190

Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly Glu Arg Gly
195 200 205

Ala Lys Gly Glu Ser Gly Leu Ala Asp Val Asn Ala Leu Lys Gln Arg
210 215 220

Val Thr Ile Leu Glu Gly Gln Leu Gln Arg Leu Gln Asn Ala Phe Ser
225 230 235 240

Arg Tyr Lys Lys Ala Val Leu Phe Pro Asp Gly Gln Ala Val Gly Lys
245 250 255

Lys Ile Phe Lys Thr Ala Gly Ala Val Lys Ser Tyr Ser Asp Ala Gln
260 265 270

Gln Leu Cys Arg Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ala
275 280 285

Ala Glu Asn Glu Ala Val Ala Gln Leu Val Arg Ala Lys Asn Asn Asp
290 295 300

Ala Phe Leu Ser Met Asn Asp Ile Ser Thr Glu Gly Lys Phe Thr Tyr
305 310 315 320

Pro Thr Gly Glu Ser Leu Val Tyr Ser Asn Trp Ala Ser Gly Glu Pro
325 330 335

Asn Asn Asn Asn Ala Gly Gln Pro Glu Asn Cys Val Gln Ile Tyr Arg

340

345

350

Glu Gly Lys Trp Asn Asp Val Pro Cys Ser Glu Pro Leu Leu Val Ile
 355 360 365

Cys Glu Phe
 370

<210> 5
 <211> 420
 <212> PRT
 <213> Mus musculus

<400> 5

Met Asn Gly Phe Arg Val Leu Leu Arg Ser Asn Leu Ser Met Leu Leu
 1 5 10 15

Leu Leu Ala Leu Leu His Phe Gln Ser Leu Gly Leu Asp Val Asp Ser
 20 25 30

Arg Ser Ala Ala Glu Val Cys Ala Thr His Thr Ile Ser Pro Gly Pro
 35 40 45

Lys Gly Asp Asp Gly Glu Arg Gly Asp Thr Gly Glu Glu Gly Lys Asp
 50 55 60

Gly Lys Val Gly Arg Gln Gly Pro Lys Gly Val Lys Gly Glu Leu Gly
 65 70 75 80

Asp Met Gly Ala Gln Gly Asn Ile Gly Lys Ser Gly Pro Ile Gly Lys
 85 90 95

Lys Gly Asp Lys Gly Glu Lys Gly Leu Leu Gly Ile Pro Gly Glu Lys
 100 105 110

Gly Lys Ala Gly Thr Ile Cys Asp Cys Gly Arg Tyr Arg Lys Val Val
 115 120 125

Gly Gln Leu Asp Ile Ser Val Ala Arg Leu Lys Thr Ser Met Lys Phe
 130 135 140

Ile Lys Asn Val Ile Ala Gly Ile Arg Glu Thr Glu Glu Lys Phe Tyr
 145 150 155 160

Tyr Ile Val Gln Glu Glu Lys Asn Tyr Arg Glu Ser Leu Thr His Cys
165 170 175

Arg Ile Arg Gly Gly Met Leu Ala Met Pro Lys Asp Glu Val Val Asn
180 185 190

Thr Leu Ile Ala Asp Tyr Val Ala Lys Ser Gly Phe Phe Arg Val Phe
195 200 205

Ile Gly Val Asn Asp Leu Glu Arg Glu Gly Gln Tyr Val Phe Thr Asp
210 215 220

Asn Thr Pro Leu Gln Asn Tyr Ser Asn Trp Lys Glu Glu Glu Pro Ser
225 230 235 240

Asp Pro Ser Gly His Glu Asp Cys Val Glu Met Leu Ser Ser Gly Arg
245 250 255

Trp Asn Asp Thr Glu Cys His Leu Thr Met Tyr Phe Val Ser Ser Leu
260 265 270

Gln Glu Asp Leu Ile Glu Asp Cys Leu Arg Glu Gln Gly Leu Leu Val
275 280 285

Gln Val Thr Pro Ala Asn Gln Glu Leu Leu Phe Gly Ile Asp Thr Phe
290 295 300

Leu Gly Pro Met Ser Cys Val Tyr Gln Arg Thr Gly Thr Lys Gln Lys
305 310 315 320

Leu Tyr Ser Gln Cys Arg Leu Trp Asp Gly Leu Ala Lys Lys Gln Thr
325 330 335

Asn Glu Thr Ala Asn Ile Ala Thr Phe Cys Lys Gly Ala Glu Pro Asn
340 345 350

Arg Gly Ser Arg Pro Cys Gly Gln Lys Gln Glu Met Met Thr Leu Met
355 360 365

Met Ser Gly Asn Lys Gly Ile Thr Thr Phe Pro Glu Ser Asp Asn Leu
370 375 380

Phe Lys Trp Val Gly Thr Met Leu Gly Ala Ala Gly Thr Ile Asp Glu
385 390 395 400

Asp Leu Lys Tyr Lys Leu Ser Leu Asn Ser Pro Val Val Thr Leu Ile
405 410 415

Ile His Pro Gln
420

<210> 6
<211> 742
<212> PRT
<213> Mus musculus

<400> 6

Met Lys Asp Asp Phe Ala Glu Glu Glu Glu Val Gln Ser Phe Gly Tyr
1 5 10 15

Lys Arg Phe Gly Ile Gln Glu Gly Thr Gln Cys Thr Lys Cys Lys Asn
20 25 30

Asn Trp Ala Leu Lys Phe Ser Ile Val Leu Leu Tyr Ile Leu Cys Ala
35 40 45

Leu Leu Thr Ile Thr Val Ala Ile Leu Gly Tyr Lys Val Val Glu Lys
50 55 60

Met Asp Asn Val Thr Asp Gly Met Glu Thr Ser His Gln Thr Tyr Asp
65 70 75 80

Asn Lys Leu Thr Ala Val Glu Ser Asp Leu Lys Lys Leu Gly Asp Gln
85 90 95

Ala Gly Lys Lys Ala Leu Ser Thr Asn Ser Glu Leu Ser Thr Phe Arg
100 105 110

Ser Asp Ile Leu Asp Leu Arg Gln Gln Leu Gln Glu Ile Thr Glu Lys
115 120 125

Thr Ser Lys Asn Lys Asp Thr Leu Glu Lys Leu Gln Ala Asn Gly Asp
130 135 140

Ser Leu Val Asp Arg Gln Ser Gln Leu Lys Glu Thr Leu Gln Asn Asn
145 150 155 160

Ser Phe Leu Ile Thr Thr Val Asn Lys Thr Leu Gln Ala Tyr Asn Gly

165	170	175
Tyr Val Thr Asn Leu Gln Gln Asp Thr Ser Val Leu Gln Gly Asn Leu 180 185 190		
Gln Ser Gln Met Tyr Ser Gln Ser Val Val Ile Met Asn Leu Asn Asn 195 200 205		
Leu Asn Leu Thr Gln Val Gln Gln Arg Asn Leu Ile Ser Asn Leu Gln 210 215 220		
Gln Ser Val Asp Asp Thr Ser Leu Ala Ile Gln Arg Ile Lys Asn Asp 225 230 235 240		
Phe Gln Asn Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp 245 250 255		
Trp Leu Lys Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn 260 265 270		
Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser 275 280 285		
Gln Leu Ser Ser Phe Thr Gly Gln Met Asp Asn Ile Thr Thr Ile Ser 290 295 300		
Gln Ala Asn Glu Gln Ser Leu Lys Asp Leu Gln Asp Leu His Lys Asp 305 310 315 320		
Thr Glu Asn Arg Thr Ala Val Lys Phe Ser Gln Leu Glu Glu Arg Phe 325 330 335		
Gln Val Phe Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr 340 345 350		
Thr Ala His His Leu Arg Thr Leu Thr Ser Asn Leu Asn Asp Val Arg 355 360 365		
Thr Thr Cys Thr Asp Thr Leu Thr Arg His Thr Asp Asp Leu Thr Ser 370 375 380		
Leu Asn Asn Thr Leu Val Asn Ile Arg Leu Asp Ser Ile Ser Leu Arg 385 390 395 400		

Met Gln Gln Asp Met Met Arg Ser Lys Leu Asp Thr Glu Val Ala Asn
405 410 415

Leu Ser Val Val Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly
420 425 430

Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg
435 440 445

Gly Pro Lys Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly
450 455 460

Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro
465 470 475 480

Ala Gly Glu Arg Gly Thr Ile Gly Pro Val Gly Pro Pro Gly Glu Arg
485 490 495

Gly Ser Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly
500 505 510

Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro
515 520 525

Pro Gly Pro Pro Gly Lys Asp Gly Leu Pro Gly Pro Gln Gly Pro Pro
530 535 540

Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly
545 550 555 560

Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro
565 570 575

Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Met Glu Pro Leu
580 585 590

Ala Leu Gln Asn Glu Pro Thr Pro Ala Ser Glu Val Asn Gly Cys Pro
595 600 605

Pro His Trp Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser Leu Glu
610 615 620

Lys Glu Ile Phe Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys Ser Ser

625 630 635 640

His Leu Val Phe Ile Asn Ser Arg Glu Glu Gln Gln Trp Ile Lys Lys
645 650 655

His Thr Val Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp Ser Glu
660 665 670

Gln Glu Ser Glu Trp Lys Trp Leu Asp Gly Ser Pro Val Asp Tyr Lys
675 680 685

Asn Trp Lys Ala Gly Gln Pro Asp Asn Trp Gly Ser Gly His Gly Pro
690 695 700

Gly Glu Asp Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn Asp Phe
705 710 715 720

Gln Cys Asp Glu Ile Asn Asn Phe Ile Cys Glu Lys Glu Arg Glu Ala
725 730 735

Val Pro Ser Ser Ile Leu
740

<210> 7
<211> 251
<212> PRT
<213> Danio rerio

<400> 7

Met Ala Leu Leu Lys Leu Phe Leu Gly Ala Leu Leu Leu Leu Gln Leu
1 5 10 15

Val Leu Gln Leu Met Ala Gly Ala Ala Asp Pro Gln Ser Leu Asn Cys
20 25 30

Pro Ala Tyr Ala Gly Val Pro Gly Thr Pro Gly His Asn Gly Leu Pro
35 40 45

Gly Arg Asp Gly Arg Val Gly Arg Asp Gly Ala Asn Gly Pro Lys Gly
50 55 60

Glu Lys Gly Glu Pro Gly Val Asn Val Gln Gly Pro Pro Gly Lys Ala
65 70 75 80

Gly Pro Pro Gly Pro Ala Gly Ala Lys Gly Glu Arg Gly Pro Ser Gly
85 90 95

Leu Pro Gly Gln Asp Cys Met Ser Asp Ser Leu Lys Ser Glu Leu Gln
100 105 110

Lys Leu Ser Asp Lys Ile Ala Leu Ile Glu Lys Val Val Asn Phe Lys
115 120 125

Thr Phe Lys Lys Val Gly Gln Lys Tyr Tyr Val Thr Asp Asp Val Glu
130 135 140

Glu Thr Phe Asp Lys Gly Met Gln Tyr Cys Ser Ser Asn Gly Gly Ala
145 150 155 160

Leu Val Leu Pro Arg Thr Leu Glu Glu Asn Ala Leu Leu Lys Val Phe
165 170 175

Val Ser Ser Ala Phe Lys Arg Leu Phe Ile Arg Ile Thr Asp Arg Glu
180 185 190

Lys Glu Gly Glu Phe Val Asp Thr Asp Arg Lys Lys Leu Thr Phe Thr
195 200 205

Asn Trp Gly Pro Asn Gln Pro Asp Asn Tyr Lys Gly Ala Gln Asp Cys
210 215 220

Gly Ala Ile Ala Asp Ser Gly Leu Trp Asp Asp Val Ser Cys Asp Ser
225 230 235 240

Leu Tyr Pro Ile Ile Cys Glu Ile Glu Ile Lys
245 250

<210> 8
<211> 742
<212> PRT
<213> Homo sapiens

<400> 8

Met Lys Asp Asp Phe Ala Glu Glu Glu Glu Val Gln Ser Phe Gly Tyr
1 5 10 15

Lys Arg Phe Gly Ile Gln Glu Gly Thr Gln Cys Thr Lys Cys Lys Asn
20 25 30

Asn Trp Ala Leu Lys Phe Ser Ile Ile Leu Leu Tyr Ile Leu Cys Ala
 35 40 45

Leu Leu Thr Ile Thr Val Ala Ile Leu Gly Tyr Lys Val Val Glu Lys
 50 55 60

Met Asp Asn Val Thr Gly Gly Met Glu Thr Ser Arg Gln Thr Tyr Asp
 65 70 75 80

Asp Lys Leu Thr Ala Val Glu Ser Asp Leu Lys Lys Leu Gly Asp Gln
 85 90 95

Thr Gly Lys Lys Ala Ile Ser Thr Asn Ser Glu Leu Ser Thr Phe Arg
 100 105 110

Ser Asp Ile Leu Asp Leu Arg Gln Gln Leu Arg Glu Ile Thr Glu Lys
 115 120 125

Thr Ser Lys Asn Lys Asp Thr Leu Glu Lys Leu Gln Ala Ser Gly Asp
 130 135 140

Ala Leu Val Asp Arg Gln Ser Gln Leu Lys Glu Thr Leu Glu Asn Asn
 145 150 155 160

Ser Phe Leu Ile Thr Thr Val Asn Lys Thr Leu Gln Ala Tyr Asn Gly
 165 170 175

Tyr Val Thr Asn Leu Gln Gln Asp Thr Ser Val Leu Gln Gly Asn Leu
 180 185 190

Gln Asn Gln Met Tyr Ser His Asn Val Val Ile Met Asn Leu Asn Asn
 195 200 205

Leu Asn Leu Thr Gln Val Gln Gln Arg Asn Leu Ile Thr Asn Leu Gln
 210 215 220

Arg Ser Val Asp Asp Thr Ser Gln Ala Ile Gln Arg Ile Lys Asn Asp
 225 230 235 240

Phe Gln Asn Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp
 245 250 255

Trp Leu Lys Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn

260	265	270
Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser 275 280 285		
Gln Leu Asn Ser Phe Thr Gly Gln Met Glu Asn Ile Thr Thr Ile Ser 290 295 300		
Gln Ala Asn Glu Gln Asn Leu Lys Asp Leu Gln Asp Leu His Lys Asp 305 310 315 320		
Ala Glu Asn Arg Thr Ala Ile Lys Phe Asn Gln Leu Glu Glu Arg Phe 325 330 335		
Gln Leu Phe Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr 340 345 350		
Thr Ala His His Leu Arg Thr Leu Thr Ser Asn Leu Asn Glu Val Arg 355 360 365		
Thr Thr Cys Thr Asp Thr Leu Thr Lys His Thr Asp Asp Leu Thr Ser 370 375 380		
Leu Asn Asn Thr Leu Ala Asn Ile Arg Leu Asp Ser Val Ser Leu Arg 385 390 395 400		
Met Gln Gln Asp Leu Met Arg Ser Arg Leu Asp Thr Glu Val Ala Asn 405 410 415		
Leu Ser Val Ile Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly 420 425 430		
Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg 435 440 445		
Gly Pro Arg Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly 450 455 460		
Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro 465 470 475 480		
Ala Gly Glu Arg Gly Pro Ile Gly Pro Ala Gly Pro Pro Gly Glu Arg 485 490 495		

Gly Gly Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly
 500 505 510

Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro
 515 520 525

Pro Gly Pro Pro Gly Lys Glu Gly Leu Pro Gly Pro Gln Gly Pro Pro
 530 535 540

Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly
 545 550 555 560

Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro
 565 570 575

Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Val Val Pro Leu
 580 585 590

Ala Leu Gln Asn Glu Pro Thr Pro Ala Pro Glu Asp Asn Gly Cys Pro
 595 600 605

Pro His Trp Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser Val Glu
 610 615 620

Lys Glu Ile Phe Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys Ser Ser
 625 630 635 640

His Leu Val Phe Ile Asn Thr Arg Glu Glu Gln Gln Trp Ile Lys Lys
 645 650 655

Gln Met Val Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp Ser Glu
 660 665 670

Arg Glu Asn Glu Trp Lys Trp Leu Asp Gly Thr Ser Pro Asp Tyr Lys
 675 680 685

Asn Trp Lys Ala Gly Gln Pro Asp Asn Trp Gly His Gly His Gly Pro
 690 695 700

Gly Glu Asp Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn Asp Phe
 705 710 715 720

Gln Cys Glu Asp Val Asn Asn Phe Ile Cys Glu Lys Asp Arg Glu Thr

725

730

735

Val Leu Ser Ser Ala Leu
740

<210> 9
<211> 622
<212> PRT
<213> Homo sapiens

<400> 9

Met Lys Asp Asp Phe Ala Glu Glu Glu Glu Val Gln Ser Phe Gly Tyr
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Lys Arg Phe Gly Ile Gln Glu Gly Thr Gln Cys Thr Lys Cys Lys Asn
20 25 30

Asn Trp Ala Leu Lys Phe Ser Ile Ile Leu Leu Tyr Ile Leu Cys Ala
35 40 45

Leu Leu Thr Ile Thr Val Ala Ile Leu Gly Tyr Lys Val Val Glu Lys
50 55 60

Met Asp Asn Val Thr Gly Gly Met Glu Thr Ser Arg Gln Thr Tyr Asp
65 70 75 80

Asp Lys Leu Thr Ala Val Glu Ser Asp Leu Lys Lys Leu Gly Asp Gln
85 90 95

Thr Gly Lys Lys Ala Ile Ser Thr Asn Ser Glu Leu Ser Thr Phe Arg
100 105 110

Ser Asp Ile Leu Asp Leu Arg Gln Gln Leu Arg Glu Ile Thr Glu Lys
115 120 125

Thr Ser Lys Asn Lys Asp Thr Leu Glu Lys Leu Gln Ala Ser Gly Asp
130 135 140

Ala Leu Val Asp Arg Gln Ser Gln Leu Lys Glu Thr Leu Glu Asn Asn
145 150 155 160

Ser Phe Leu Ile Thr Thr Val Asn Lys Thr Leu Gln Ala Tyr Asn Gly
165 170 175

Tyr Val Thr Asn Leu Gln Gln Asp Thr Ser Val Leu Gln Gly Asn Leu
 180 185 190

Gln Asn Gln Met Tyr Ser His Asn Val Val Ile Met Asn Leu Asn Asn
 195 200 205

Leu Asn Leu Thr Gln Val Gln Gln Arg Asn Leu Ile Thr Asn Leu Gln
 210 215 220

Arg Ser Val Asp Asp Thr Ser Gln Ala Ile Gln Arg Ile Lys Asn Asp
 225 230 235 240

Phe Gln Asn Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp
 245 250 255

Trp Leu Lys Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn
 260 265 270

Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser
 275 280 285

Gln Leu Asn Ser Phe Thr Gly Gln Met Glu Asn Ile Thr Thr Ile Ser
 290 295 300

Gln Ala Asn Glu Gln Asn Leu Lys Asp Leu Gln Asp Leu His Lys Asp
 305 310 315 320

Ala Glu Asn Arg Thr Ala Ile Lys Phe Asn Gln Leu Glu Glu Arg Phe
 325 330 335

Gln Leu Phe Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr
 340 345 350

Thr Ala His His Leu Arg Thr Leu Thr Ser Asn Leu Asn Glu Val Arg
 355 360 365

Thr Thr Cys Thr Asp Thr Leu Thr Lys His Thr Asp Asp Leu Thr Ser
 370 375 380

Leu Asn Asn Thr Leu Ala Asn Ile Arg Leu Asp Ser Val Ser Leu Arg
 385 390 395 400

Met Gln Gln Asp Leu Met Arg Ser Arg Leu Asp Thr Glu Val Ala Asn
 405 410 415

Leu Ser Val Ile Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly
 420 425 430

Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg
 435 440 445

Gly Pro Arg Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly
 450 455 460

Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro
 465 470 475 480

Ala Gly Glu Arg Gly Pro Ile Gly Pro Ala Gly Pro Pro Gly Glu Arg
 485 490 495

Gly Gly Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly
 500 505 510

Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro
 515 520 525

Pro Gly Pro Pro Gly Lys Glu Gly Leu Pro Gly Pro Gln Gly Pro Pro
 530 535 540

Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly
 545 550 555 560

Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro
 565 570 575

Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Val Val Pro Leu
 580 585 590

Ala Leu Gln Asn Glu Pro Thr Pro Ala Pro Glu Asp Asn Ser Lys Ser
 595 600 605

Lys Pro Ser Leu Gln Pro Gly Gly Gln Gly Ser Ala Cys Ala
 610 615 620

<210> 10
 <211> 742
 <212> PRT
 <213> Mus musculus

<400> 10

Met Lys Asp Asp Phe Ala Glu Glu Glu Glu Val Gln Ser Phe Gly Tyr
1 5 10 15

Lys Arg Phe Gly Ile His Glu Gly Thr Gln Cys Thr Lys Cys Ile Asn
20 25 30

Asn Trp Ala Leu Lys Phe Ser Ile Val Leu Leu Tyr Ile Leu Cys Ala
35 40 45

Leu Leu Thr Ile Thr Val Ala Ile Leu Gly Tyr Lys Val Val Glu Lys
50 55 60

Met Asp Asn Val Ser Asp Gly Met Glu Thr Ser His Gln Thr Tyr Asp
65 70 75 80

Asn Lys Leu Thr Ala Val Glu Ser Asp Leu Lys Lys Leu Gly Asp Gln
85 90 95

Ala Gly Lys Lys Ala Leu Ser Thr Asn Ser Glu Leu Ser Thr Phe Arg
100 105 110

Ser Asp Ile Leu Asp Leu Arg Gln Gln Leu Gln Glu Ile Thr Glu Lys
115 120 125

Thr Ser Lys Asn Lys Asp Thr Leu Glu Lys Leu Gln Ala Asn Gly Asp
130 135 140

Ser Leu Val Asp Arg Gln Ser Gln Leu Lys Glu Thr Leu Gln Asn Asn
145 150 155 160

Ser Phe Leu Ile Thr Thr Val Asn Lys Thr Leu Gln Ala Tyr Asn Gly
165 170 175

Tyr Val Thr Asn Leu Gln Gln Asp Thr Asn Val Leu Gln Gly Asn Leu
180 185 190

Gln Ser Gln Met Tyr Ser Gln Ser Val Val Ile Met Asn Leu Asn Asn
195 200 205

Leu Asn Leu Thr Gln Val Gln Gln Arg Asn Leu Ile Ser Asn Leu Gln
210 215 220

Gln Ser Val Asp Asp Thr Ser Leu Ala Ile Gln Arg Ile Lys Asn Asp
 225 230 235 240

Phe Gln Asn Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp
 245 250 255

Trp Leu Lys Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn
 260 265 270

Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser
 275 280 285

Gln Leu Ser Ser Phe Thr Gly Gln Met Asp Asn Ile Thr Thr Ile Ser
 290 295 300

Gln Ala Asn Glu Gln Ser Leu Lys Asp Leu Gln Asp Leu His Lys Asp
 305 310 315 320

Thr Glu Asn Arg Thr Ala Val Lys Phe Ser Gln Leu Glu Glu Arg Phe
 325 330 335

Gln Val Phe Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr
 340 345 350

Thr Ala His His Leu Arg Thr Leu Thr Ser Asn Leu Asn Asp Val Trp
 355 360 365

Thr Thr Cys Thr Asp Thr Leu Thr Arg His Thr Asp Asp Leu Thr Ser
 370 375 380

Leu Asn Asn Thr Leu Val Asn Ile Arg Leu Asp Ser Ile Ser Leu Arg
 385 390 395 400

Met Gln Gln Asp Met Met Arg Ser Lys Leu Asp Thr Glu Val Ala Asn
 405 410 415

Leu Ser Val Val Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly
 420 425 430

Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg
 435 440 445

Gly Pro Lys Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly

450		455		460
Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro				
465		470		475 480
Ala Gly Glu Arg Gly Thr Ile Gly Pro Val Gly Pro Pro Gly Glu Arg				
	485		490	495
Gly Ser Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly				
	500		505	510
Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro				
	515		520	525
Pro Gly Pro Pro Gly Lys Asp Gly Leu Pro Gly Pro Gln Gly Pro Pro				
	530		535	540
Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly				
545		550		555 560
Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro				
	565		570	575
Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Met Glu Pro Leu				
	580		585	590
Ala Leu Gln Asn Glu Pro Thr Pro Ala Ser Glu Val Asn Gly Cys Pro				
	595		600	605
Pro His Trp Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser Leu Glu				
	610		615	620
Lys Glu Ile Leu Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys Ser Ser				
625		630		635 640
His Leu Val Phe Ile Asn Ser Arg Glu Glu Gln Gln Trp Ile Lys Lys				
	645		650	655
His Thr Val Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp Ser Glu				
	660		665	670
Gln Glu Ser Glu Trp Lys Trp Leu Asp Gly Ser Pro Val Asp Tyr Lys				
	675		680	685

Asn Trp Lys Ala Gly Gln Pro Asp Asn Trp Gly Ser Gly His Gly Pro
690 695 700

Gly Glu Asp Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn Asp Phe
705 710 715 720

Gln Cys Asp Glu Ile Asn Asn Phe Ile Cys Glu Lys Glu Arg Glu Ala
725 730 735

Val Pro Ser Ser Ile Leu
740

<210> 11
<211> 321
<212> PRT
<213> Bos taurus

<400> 11

Met Leu Pro Leu Pro Leu Ser Ile Leu Leu Leu Leu Thr Gln Ser Gln
1 5 10 15

Ser Phe Leu Gly Glu Glu Met Asp Val Tyr Ser Glu Lys Thr Leu Thr
20 25 30

Asp Pro Cys Thr Leu Val Val Cys Ala Pro Pro Ala Asp Ser Leu Arg
35 40 45

Gly His Asp Gly Arg Asp Gly Lys Glu Gly Pro Gln Gly Glu Lys Gly
50 55 60

Asp Pro Gly Pro Pro Gly Met Pro Gly Pro Ala Gly Arg Glu Gly Pro
65 70 75 80

Ser Gly Arg Gln Gly Ser Met Gly Pro Pro Gly Thr Pro Gly Pro Lys
85 90 95

Gly Glu Pro Gly Pro Glu Gly Gly Val Gly Ala Pro Gly Met Pro Gly
100 105 110

Ser Pro Gly Pro Ala Gly Leu Lys Gly Glu Arg Gly Thr Pro Gly Pro
115 120 125

Gly Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Met Gly Pro Pro
130 135 140

Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly Glu Lys Gly Ala Arg Gly
 145 150 155 160

Glu Thr Ser Val Leu Glu Val Asp Thr Leu Arg Gln Arg Met Arg Asn
 165 170 175

Leu Glu Gly Glu Val Gln Arg Leu Gln Asn Ile Val Thr Gln Tyr Arg
 180 185 190

Lys Ala Val Leu Phe Pro Asp Gly Gln Ala Val Gly Glu Lys Ile Phe
 195 200 205

Lys Thr Ala Gly Ala Val Lys Ser Tyr Ser Asp Ala Glu Gln Leu Cys
 210 215 220

Arg Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ser Ala Glu Asn
 225 230 235 240

Glu Ala Val Thr Gln Leu Val Arg Ala Lys Asn Lys His Ala Tyr Leu
 245 250 255

Ser Met Asn Asp Ile Ser Lys Glu Gly Lys Phe Thr Tyr Pro Thr Gly
 260 265 270

Gly Ser Leu Asp Tyr Ser Asn Trp Ala Pro Gly Glu Pro Asn Asn Arg
 275 280 285

Ala Lys Asp Glu Gly Pro Glu Asn Cys Leu Glu Ile Tyr Ser Asp Gly
 290 295 300

Asn Trp Asn Asp Ile Glu Cys Arg Glu Glu Arg Leu Val Ile Cys Glu
 305 310 315 320

Phe

<210> 12
 <211> 321
 <212> PRT
 <213> Bos taurus

<400> 12

Met Leu Pro Leu Pro Leu Ser Ile Leu Leu Leu Leu Thr Gln Ser Gln

1	5	10	15
Ser Phe Leu Gly Glu Glu Met Asp Val Tyr Ser Glu Lys Thr Leu Thr	20	25	30
Asp Pro Cys Thr Leu Val Val Cys Ala Pro Pro Ala Asp Ser Leu Arg	35	40	45
Gly His Asp Gly Arg Asp Gly Lys Glu Gly Pro Gln Gly Glu Lys Gly	50	55	60
Asp Pro Gly Pro Pro Gly Met Pro Gly Pro Ala Gly Arg Glu Gly Pro	65	70	75
Ser Gly Arg Gln Gly Ser Met Gly Pro Pro Gly Thr Pro Gly Pro Lys	85	90	95
Gly Glu Pro Gly Pro Glu Gly Gly Val Gly Ala Pro Gly Met Pro Gly	100	105	110
Ser Pro Gly Pro Ala Gly Leu Lys Gly Glu Arg Gly Thr Pro Gly Pro	115	120	125
Gly Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Met Gly Pro Pro	130	135	140
Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly Glu Lys Gly Ala Arg Gly	145	150	155
Glu Thr Ser Val Leu Glu Val Asp Thr Leu Arg Gln Arg Met Arg Asn	165	170	175
Leu Glu Gly Glu Val Gln Arg Leu Gln Asn Ile Val Thr Gln Tyr Arg	180	185	190
Lys Ala Val Leu Phe Pro Asp Gly Gln Ala Val Gly Glu Lys Ile Phe	195	200	205
Lys Thr Ala Gly Ala Val Lys Ser Tyr Ser Asp Ala Glu Gln Leu Cys	210	215	220
Arg Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ser Ala Glu Asn	225	230	235
			240

Glu Ala Val Thr Gln Leu Val Arg Ala Lys Asn Lys His Ala Tyr Leu
245 250 255

Ser Met Asn Asp Ile Ser Lys Glu Gly Lys Phe Thr Tyr Pro Thr Gly
260 265 270

Gly Ser Leu Asp Tyr Ser Asn Trp Ala Pro Gly Glu Pro Asn Asn Arg
275 280 285

Ala Lys Asp Glu Gly Pro Glu Asn Cys Leu Glu Ile Tyr Ser Asp Gly
290 295 300

Asn Trp Asn Asp Ile Glu Cys Arg Glu Glu Arg Leu Val Ile Cys Glu
305 310 315 320

Phe

<210> 13
<211> 272
<212> PRT
<213> Mus musculus

<400> 13

Met Met Met Arg Asp Leu Ala Leu Ala Gly Met Leu Ile Ser Leu Ala
1 5 10 15

Phe Leu Ser Leu Leu Pro Ser Gly Cys Pro Gln Gln Thr Thr Glu Asp
20 25 30

Ala Cys Ser Val Gln Ile Leu Val Pro Gly Leu Lys Gly Asp Ala Gly
35 40 45

Glu Lys Gly Asp Lys Gly Ala Pro Gly Arg Pro Gly Arg Val Gly Pro
50 55 60

Thr Gly Glu Lys Gly Asp Met Gly Asp Lys Gly Gln Lys Gly Thr Val
65 70 75 80

Gly Arg His Gly Lys Ile Gly Pro Ile Gly Ala Lys Gly Glu Lys Gly
85 90 95

Asp Ser Gly Asp Ile Gly Pro Pro Gly Pro Ser Gly Glu Pro Gly Ile
100 105 110

Pro Cys Glu Cys Ser Gln Leu Arg Lys Ala Ile Gly Glu Met Asp Asn
 115 120 125

Gln Val Thr Gln Leu Thr Thr Glu Leu Lys Phe Ile Lys Asn Ala Val
 130 135 140

Ala Gly Val Arg Glu Thr Glu Ser Lys Ile Tyr Leu Leu Val Lys Glu
 145 150 155 160

Glu Lys Arg Tyr Ala Asp Ala Gln Leu Ser Cys Gln Ala Arg Gly Gly
 165 170 175

Thr Leu Ser Met Pro Lys Asp Glu Ala Ala Asn Gly Leu Met Ala Ser
 180 185 190

Tyr Leu Ala Gln Ala Gly Leu Ala Arg Val Phe Ile Gly Ile Asn Asp
 195 200 205

Leu Glu Lys Glu Gly Ala Phe Val Tyr Ser Asp Arg Ser Pro Met Gln
 210 215 220

Thr Phe Asn Lys Trp Arg Ser Gly Glu Pro Asn Asn Ala Tyr Asp Glu
 225 230 235 240

Glu Asp Cys Val Glu Met Val Ala Ser Gly Gly Trp Asn Asp Val Ala
 245 250 255

Cys His Ile Thr Met Tyr Phe Met Cys Glu Phe Asp Lys Glu Asn Leu
 260 265 270

<210> 14
 <211> 239
 <212> PRT
 <213> Mus musculus

<400> 14

Met Leu Leu Leu Pro Leu Leu Pro Val Leu Leu Cys Val Val Ser Val
 1 5 10 15

Ser Ser Ser Gly Ser Gln Thr Cys Glu Asp Thr Leu Lys Thr Cys Ser
 20 25 30

Val Ile Ala Cys Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys

35

40

45

Gly Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys
50 55 60

Leu Gly Pro Pro Gly Ser Val Gly Ser Pro Gly Ser Pro Gly Pro Lys
65 70 75 80

Gly Gln Lys Gly Asp His Gly Asp Asn Arg Ala Ile Glu Glu Lys Leu
85 90 95

Ala Asn Met Glu Ala Glu Ile Arg Ile Leu Lys Ser Lys Leu Gln Leu
100 105 110

Thr Asn Lys Leu His Ala Phe Ser Met Gly Lys Lys Ser Gly Lys Lys
115 120 125

Leu Phe Val Thr Asn His Glu Lys Met Pro Phe Ser Lys Val Lys Ser
130 135 140

Leu Cys Thr Glu Leu Gln Gly Thr Val Ala Ile Pro Arg Asn Ala Glu
145 150 155 160

Glu Asn Lys Ala Ile Gln Glu Val Ala Thr Gly Ile Ala Phe Leu Gly
165 170 175

Ile Thr Asp Glu Ala Thr Glu Gly Gln Phe Met Tyr Val Thr Gly Gly
180 185 190

Arg Leu Thr Tyr Ser Asn Trp Lys Lys Asp Glu Pro Asn Asn His Gly
195 200 205

Ser Gly Glu Asp Cys Val Ile Ile Leu Asp Asn Gly Leu Trp Asn Asp
210 215 220

Ile Ser Cys Gln Ala Ser Phe Lys Ala Val Cys Glu Phe Pro Ala
225 230 235

<210> 15

<211> 244

<212> PRT

<213> Mus musculus

<400> 15

Met Ser Ile Phe Thr Ser Phe Leu Leu Leu Cys Val Val Thr Val Val
 1 5 10 15
 Tyr Ala Glu Thr Leu Thr Glu Gly Val Gln Asn Ser Cys Pro Val Val
 20 25 30
 Thr Cys Ser Ser Pro Gly Leu Asn Gly Phe Pro Gly Lys Asp Gly Arg
 35 40 45
 Asp Gly Ala Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly Leu Arg Gly
 50 55 60
 Leu Gln Gly Pro Pro Gly Lys Val Gly Pro Thr Gly Pro Pro Gly Asn
 65 70 75 80
 Pro Gly Leu Lys Gly Ala Val Gly Pro Lys Gly Asp Arg Gly Asp Arg
 85 90 95
 Ala Glu Phe Asp Thr Ser Glu Ile Asp Ser Glu Ile Ala Ala Leu Arg
 100 105 110
 Ser Glu Leu Arg Ala Leu Arg Asn Trp Val Leu Phe Ser Leu Ser Glu
 115 120 125
 Lys Val Gly Lys Lys Tyr Phe Val Ser Ser Val Lys Lys Met Ser Leu
 130 135 140
 Asp Arg Val Lys Ala Leu Cys Ser Glu Phe Gln Gly Ser Val Ala Thr
 145 150 155 160
 Pro Arg Asn Ala Glu Glu Asn Ser Ala Ile Gln Lys Val Ala Lys Asp
 165 170 175
 Ile Ala Tyr Leu Gly Ile Thr Asp Val Arg Val Glu Gly Ser Phe Glu
 180 185 190
 Asp Leu Thr Gly Asn Arg Val Arg Tyr Thr Asn Trp Asn Asp Gly Glu
 195 200 205
 Pro Asn Asn Thr Gly Asp Gly Glu Asp Cys Val Val Ile Leu Gly Asn
 210 215 220
 Gly Lys Trp Asn Asp Val Pro Cys Ser Asp Ser Phe Leu Ala Ile Cys
 225 230 235 240

Glu Phe Ser Asp

<210> 16
<211> 277
<212> PRT
<213> Homo sapiens

<400> 16

Met Asn Gly Phe Ala Ser Leu Leu Arg Arg Asn Gln Phe Ile Leu Leu
1 5 10 15

Val Leu Phe Leu Leu Gln Ile Gln Ser Leu Gly Leu Asp Ile Asp Ser
20 25 30

Arg Pro Thr Ala Glu Val Cys Ala Thr His Thr Ile Ser Pro Gly Pro
35 40 45

Lys Gly Asp Asp Gly Glu Lys Gly Asp Pro Gly Glu Glu Gly Lys His
50 55 60

Gly Lys Val Gly Arg Met Gly Pro Lys Gly Ile Lys Gly Glu Leu Gly
65 70 75 80

Asp Met Gly Asp Arg Gly Asn Ile Gly Lys Thr Gly Pro Ile Gly Lys
85 90 95

Lys Gly Asp Lys Gly Glu Lys Gly Leu Leu Gly Ile Pro Gly Glu Lys
100 105 110

Gly Lys Ala Gly Thr Val Cys Asp Cys Gly Arg Tyr Arg Lys Phe Val
115 120 125

Gly Gln Leu Asp Ile Ser Ile Ala Arg Leu Lys Thr Ser Met Lys Phe
130 135 140

Val Lys Asn Val Ile Ala Gly Ile Arg Glu Thr Glu Glu Lys Phe Tyr
145 150 155 160

Tyr Ile Val Gln Glu Glu Lys Asn Tyr Arg Glu Ser Leu Thr His Cys
165 170 175

Arg Ile Arg Gly Gly Met Leu Ala Met Pro Lys Asp Glu Ala Ala Asn

180	185	190
Thr Leu Ile Ala Asp Tyr Val Ala Lys Ser Gly Phe Phe Arg Val Phe 195 200 205		
Ile Gly Val Asn Asp Leu Glu Arg Glu Gly Gln Tyr Met Phe Thr Asp 210 215 220		
Asn Thr Pro Leu Gln Asn Tyr Ser Asn Trp Asn Glu Gly Glu Pro Ser 225 230 235 240		
Asp Pro Tyr Gly His Glu Asp Cys Val Glu Met Leu Ser Ser Gly Arg 245 250 255		
Trp Asn Asp Thr Glu Cys His Leu Thr Met Tyr Phe Val Cys Glu Phe 260 265 270		
Ile Lys Lys Lys Lys 275		
<210> 17		
<211> 742		
<212> PRT		
<213> Homo sapiens		
<400> 17		
Met Lys Asp Asp Phe Ala Glu Glu Glu Glu Val Gln Ser Phe Gly Tyr 1 5 10 15		
Lys Arg Phe Gly Ile Gln Glu Gly Thr Gln Cys Thr Lys Cys Lys Asn 20 25 30		
Asn Trp Ala Leu Lys Phe Ser Ile Ile Leu Leu Tyr Ile Leu Cys Ala 35 40 45		
Leu Leu Thr Ile Thr Val Ala Ile Leu Gly Tyr Lys Val Val Glu Lys 50 55 60		
Met Asp Asn Val Thr Gly Gly Met Glu Thr Ser Arg Gln Thr Tyr Asp 65 70 75 80		
Asp Lys Leu Thr Ala Val Glu Ser Asp Leu Lys Lys Leu Gly Asp Gln 85 90 95		

Thr Gly Lys Lys Ala Ile Ser Thr Asn Ser Glu Leu Ser Thr Phe Arg
 100 105 110

Ser Asp Ile Leu Asp Leu Arg Gln Gln Leu Arg Glu Ile Thr Glu Lys
 115 120 125

Thr Ser Lys Asn Lys Asp Thr Leu Glu Lys Leu Gln Ala Ser Gly Asp
 130 135 140

Ala Leu Val Asp Arg Gln Ser Gln Leu Lys Glu Thr Leu Glu Asn Asn
 145 150 155 160

Ser Phe Leu Ile Thr Thr Val Asn Lys Thr Leu Gln Ala Tyr Asn Gly
 165 170 175

Tyr Val Thr Asn Leu Gln Gln Asp Thr Ser Val Leu Gln Gly Asn Leu
 180 185 190

Gln Asn Gln Met Tyr Ser His Asn Val Val Ile Met Asn Leu Asn Asn
 195 200 205

Leu Asn Leu Thr Gln Val Gln Gln Arg Asn Leu Ile Thr Asn Leu Gln
 210 215 220

Arg Ser Val Asp Asp Thr Ser Gln Ala Ile Gln Arg Ile Lys Asn Asp
 225 230 235 240

Phe Gln Asn Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp
 245 250 255

Trp Leu Lys Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn
 260 265 270

Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser
 275 280 285

Gln Leu Asn Ser Phe Thr Gly Gln Met Glu Asn Ile Thr Thr Ile Ser
 290 295 300

Gln Ala Asn Glu Gln Asn Leu Lys Asp Leu Gln Asp Leu His Lys Asp
 305 310 315 320

Ala Glu Asn Arg Thr Ala Ile Lys Phe Asn Gln Leu Glu Glu Arg Phe
 325 330 335

Gln Leu Phe Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr
 340 345 350

Thr Ala His His Leu Arg Thr Leu Thr Ser Asn Leu Asn Glu Val Arg
 355 360 365

Thr Thr Cys Thr Asp Thr Leu Thr Lys His Thr Asp Asp Leu Thr Ser
 370 375 380

Leu Asn Asn Thr Leu Ala Asn Ile Arg Leu Asp Ser Val Ser Leu Arg
 385 390 395 400

Met Gln Gln Asp Leu Met Arg Ser Arg Leu Asp Thr Glu Val Ala Asn
 405 410 415

Leu Ser Val Ile Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly
 420 425 430

Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg
 435 440 445

Gly Pro Arg Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly
 450 455 460

Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro
 465 470 475 480

Ala Gly Glu Arg Gly Pro Ile Gly Pro Ala Gly Pro Pro Gly Glu Arg
 485 490 495

Gly Gly Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly
 500 505 510

Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro
 515 520 525

Pro Gly Pro Pro Gly Lys Glu Gly Leu Pro Gly Pro Gln Gly Pro Pro
 530 535 540

Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly
 545 550 555 560

Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro
565 570 575

Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Val Val Pro Leu
580 585 590

Ala Leu Gln Asn Glu Pro Thr Pro Ala Pro Glu Asp Asn Gly Cys Pro
595 600 605

Pro His Trp Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser Val Glu
610 615 620

Lys Glu Ile Phe Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys Ser Ser
625 630 635 640

His Leu Val Phe Ile Asn Thr Arg Glu Glu Gln Gln Trp Ile Lys Lys
645 650 655

Gln Met Val Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp Ser Glu
660 665 670

Arg Glu Asn Glu Trp Lys Trp Leu Asp Gly Thr Ser Pro Asp Tyr Lys
675 680 685

Asn Trp Lys Ala Gly Gln Pro Asp Asn Trp Gly His Gly His Gly Pro
690 695 700

Gly Glu Asp Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn Asp Phe
705 710 715 720

Gln Cys Glu Asp Val Asn Asn Phe Ile Cys Glu Lys Asp Arg Glu Thr
725 730 735

Val Leu Ser Ser Ala Leu
740

<210> 18
<211> 246
<212> PRT
<213> Carassius auratus

<400> 18

Leu Leu Leu Leu Gln Phe Ala Leu Gln Leu Leu Asp Gly Ala Glu Pro
1 5 10 15

Gln Asn Leu Asn Cys Pro Ala Tyr Gly Gly Val Pro Gly Thr Pro Gly
 20 25 30

His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Lys Asp Gly Ala
 35 40 45

Ile Gly Pro Lys Gly Glu Lys Gly Glu Ser Gly Val Ser Val Gln Gly
 50 55 60

Pro Pro Gly Lys Ala Gly Pro Pro Gly Thr Ala Gly Glu Lys Gly Glu
 65 70 75 80

Arg Gly Pro Ser Gly Pro Gln Gly Ser Pro Gly Ser Glu Ser Val Leu
 85 90 95

Glu Ser Leu Lys Ser Glu Ile Gln Gln Leu Lys Ala Lys Ile Ala Thr
 100 105 110

Phe Glu Lys Val Ser Ser Val Cys His Phe Arg Lys Val Gly Gln Lys
 115 120 125

Tyr Tyr Ile Thr Asp Gly Val Val Gly Asn Phe Asp Gln Gly Leu Lys
 130 135 140

Ser Cys Met Glu Phe Gly Gly Thr Met Val Ser Pro Arg Thr Ser Ala
 145 150 155 160

Glu Asn Gln Ala Leu Leu Lys Leu Val Val Ser Ser Gly Leu Gly Ser
 165 170 175

Lys Lys Pro Tyr Ile Gly Val Thr Asp Arg Lys Thr Glu Gly Gln Phe
 180 185 190

Val Asp Thr Glu Gly Lys Gln Leu Thr Phe Thr Asn Trp Gly Pro Gly
 195 200 205

Gln Pro Asp Asp Tyr Lys Gly Leu Gln Asp Cys Gly Val Ile Glu Asp
 210 215 220

Thr Gly Leu Trp Asp Asp Gly Gly Cys Gly Asp Ile Arg Pro Ile Met
 225 230 235 240

Cys Glu Ile Asp Ile Lys

245

<210> 19
<211> 251
<212> PRT
<213> Danio rerio

<400> 19

Met Ala Leu Leu Lys Leu Phe Leu Gly Ala Leu Leu Leu Leu Gln Leu
1 5 10 15

Val Leu Gln Leu Met Ala Gly Ala Ala Asp Pro Gln Ser Leu Asn Cys
20 25 30

Pro Ala Tyr Ala Gly Val Pro Gly Thr Pro Gly His Asn Gly Leu Pro
35 40 45

Gly Arg Asp Gly Arg Val Gly Arg Asp Gly Ala Asn Gly Pro Lys Gly
50 55 60

Glu Lys Gly Glu Pro Gly Val Asn Val Gln Gly Pro Pro Gly Lys Ala
65 70 75 80

Gly Pro Pro Gly Pro Ala Gly Ala Lys Gly Glu Arg Gly Pro Ser Gly
85 90 95

Leu Pro Gly Gln Asp Cys Met Ser Asp Ser Leu Lys Ser Glu Leu Gln
100 105 110

Lys Leu Ser Asp Lys Ile Ala Leu Ile Glu Lys Val Val Asn Phe Lys
115 120 125

Thr Phe Lys Lys Val Gly Gln Lys Tyr Tyr Val Thr Asp Asp Val Glu
130 135 140

Glu Thr Phe Asp Lys Gly Met Gln Tyr Cys Ser Ser Asn Gly Gly Ala
145 150 155 160

Leu Val Leu Pro Arg Thr Leu Glu Glu Asn Ala Leu Leu Lys Val Phe
165 170 175

Val Ser Ser Ala Phe Lys Arg Leu Phe Ile Arg Ile Thr Asp Arg Glu
180 185 190

Lys Glu Gly Glu Phe Val Asp Thr Asp Arg Lys Lys Leu Thr Phe Thr
 195 200 205

Asn Trp Gly Pro Asn Gln Pro Asp Asn Tyr Lys Gly Ala Gln Asp Cys
 210 215 220

Gly Ala Ile Ala Asp Ser Gly Leu Trp Asp Asp Val Ser Cys Asp Ser
 225 230 235 240

Leu Tyr Pro Ile Ile Cys Glu Ile Glu Ile Lys
 245 250

<210> 20
 <211> 256
 <212> PRT
 <213> Cyprinus carpio

<400> 20

Met Ala Leu Phe Lys Leu Phe Leu Gly Thr Leu Leu Leu Leu Gln Phe
 1 5 10 15

Ala Leu Gln Leu Leu Asp Gly Ala Glu Pro Gln Asn Leu Asn Cys Pro
 20 25 30

Ala Tyr Gly Gly Val Pro Gly Thr Pro Gly His Asn Gly Leu Pro Gly
 35 40 45

Arg Asp Gly Arg Asp Gly Lys Asp Gly Ala Ile Gly Pro Lys Gly Glu
 50 55 60

Lys Gly Glu Ser Gly Val Ser Val Gln Gly Pro Pro Gly Lys Ala Gly
 65 70 75 80

Pro Pro Gly Pro Ala Gly Glu Lys Gly Glu Arg Gly Pro Thr Gly Ser
 85 90 95

Gln Gly Ser Pro Gly Ser Glu Ser Val Leu Glu Ser Leu Lys Ser Glu
 100 105 110

Ile Gln Gln Leu Lys Ala Lys Ile Ala Thr Phe Glu Lys Val Ala Ser
 115 120 125

Val Gly His Phe Arg Gln Val Gly Gln Lys Tyr Tyr Ile Thr Asp Gly
 130 135 140

Val Val Gly Thr Phe Asp Gln Gly Leu Lys Phe Cys Lys Asp Phe Gly
145 150 155 160

Gly Thr Met Val Phe Pro Arg Thr Ser Ala Glu Asn Gln Ala Leu Leu
165 170 175

Lys Leu Val Val Ser Ser Gly Leu Ser Ser Lys Lys Pro Tyr Ile Gly
180 185 190

Val Thr Asp Arg Glu Thr Glu Gly Arg Phe Val Asn Thr Glu Gly Lys
195 200 205

Gln Leu Thr Phe Thr Asn Trp Gly Pro Gly Gln Pro Asp Asp Tyr Lys
210 215 220

Gly Leu Gln Asp Cys Gly Val Ile Glu Asp Ser Gly Leu Trp Asp Asp
225 230 235 240

Gly Ser Cys Gly Asp Ile Arg Pro Ile Met Cys Glu Ile Asp Asn Lys
245 250 255

<210> 21
<211> 222
<212> PRT
<213> Gallus gallus

<400> 21

Met Leu Ser Tyr Ser Phe Cys Met Ile Ala Ala Ala Val Ala Leu Leu
1 5 10 15

Thr Pro Cys His Ala Gln Asn Cys Ala Gly Ala Pro Glu Leu Pro Ser
20 25 30

Ile Pro Gly Val Ser Gly Leu Leu Gly Leu Gly Ala Leu Lys Arg Tyr
35 40 45

Phe Gly Ser Leu Leu Trp Pro Tyr Gly Glu Glu Lys Leu Pro Glu Cys
50 55 60

Gln Trp Leu Gln Arg Gln Gln Asp Leu Ser Thr Ser Ser Asp Asp Glu
65 70 75 80

Leu Gly Asn Val Leu Leu Asn Leu Arg Gln Arg Ile Leu Gln Leu Glu
85 90 95

Gly Val Leu Ala Leu Asp Gly Lys Ile Thr Lys Val Gly Glu Lys Ile
100 105 110

Phe Ala Ser Asn Gly Lys Glu Val Asn Phe Ser Ser Ala Leu Glu Ser
115 120 125

Cys Glu Glu Thr Gly Gly Thr Leu Ala Thr Pro Met Asn Glu Glu Glu
130 135 140

Asn Lys Ala Ile Met Gly Ile Val Lys Gln Tyr Asn Arg Tyr Ala Tyr
145 150 155 160

Leu Gly Ile Lys Glu Ser Asp Thr Ala Gly Gln Phe Lys Tyr Val Asn
165 170 175

Asn Gln Pro Leu Asn Tyr Thr Ser Trp Gln Gln Tyr Glu Pro Asn Gly
180 185 190

Lys Gly Thr Glu Lys Cys Val Glu Met Tyr Thr Asp Gly Asn Trp Lys
195 200 205

Asp Arg Lys Cys Asn Leu Tyr Arg Leu Thr Val Cys Glu Tyr
210 215 220

<210> 22
<211> 244
<212> PRT
<213> Mus musculus

<400> 22

Met Ser Ile Phe Thr Ser Phe Leu Leu Leu Cys Val Val Thr Val Val
1 5 10 15

Tyr Ala Glu Thr Leu Thr Glu Gly Val Gln Asn Ser Cys Pro Val Val
20 25 30

Thr Cys Ser Ser Pro Gly Leu Asn Gly Phe Pro Gly Lys Asp Gly Arg
35 40 45

Asp Gly Ala Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly Leu Arg Gly
50 55 60

Leu Gln Gly Pro Pro Gly Lys Val Gly Pro Thr Gly Pro Pro Gly Asn

65		70		75		80
Pro Gly Leu Lys Gly Ala Val Gly Pro Lys Gly Asp Arg Gly Asp Arg	85	90	95			
Ala Glu Phe Asp Thr Ser Glu Ile Asp Ser Glu Ile Ala Ala Leu Arg	100	105	110			
Ser Glu Leu Arg Ala Leu Arg Asn Trp Val Leu Phe Ser Leu Ser Glu	115	120	125			
Lys Val Gly Lys Lys Tyr Phe Val Ser Ser Val Lys Lys Met Ser Leu	130	135	140			
Asp Arg Val Lys Ala Leu Cys Ser Glu Phe Gln Gly Ser Val Ala Thr	145	150	155	160		
Pro Arg Asn Ala Glu Glu Asn Ser Ala Ile Gln Lys Val Ala Lys Asp	165	170	175			
Ile Ala Tyr Leu Gly Ile Thr Asp Val Arg Val Glu Gly Ser Phe Glu	180	185	190			
Asp Leu Thr Gly Asn Arg Val Arg Tyr Thr Asn Trp Asn Asp Gly Glu	195	200	205			
Pro Asn Asn Thr Gly Asp Gly Glu Asp Cys Val Val Ile Leu Gly Asn	210	215	220			
Gly Lys Trp Asn Asp Val Pro Cys Ser Asp Ser Phe Leu Ala Ile Cys	225	230	235	240		
Glu Phe Ser Asp						

<210> 23
 <211> 239
 <212> PRT
 <213> Mus musculus

<400> 23

Met Leu Leu Leu Pro Leu Leu Pro Val Leu Leu Cys Val Val Ser Val	1	5	10	15
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Ser Ser Ser Gly Ser Gln Thr Cys Glu Asp Thr Leu Lys Thr Cys Ser
 20 25 30

Val Ile Ala Cys Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys
 35 40 45

Gly Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys
 50 55 60

Leu Gly Pro Pro Gly Ser Val Gly Ser Pro Gly Ser Pro Gly Pro Lys
 65 70 75 80

Gly Gln Lys Gly Asp His Gly Asp Asn Arg Ala Ile Glu Glu Lys Leu
 85 90 95

Ala Asn Met Glu Ala Glu Ile Arg Ile Leu Lys Ser Lys Leu Gln Leu
 100 105 110

Thr Asn Lys Leu His Ala Phe Ser Met Gly Lys Lys Ser Gly Lys Lys
 115 120 125

Leu Phe Val Thr Asn His Glu Lys Met Pro Phe Ser Lys Val Lys Ser
 130 135 140

Leu Cys Thr Glu Leu Gln Gly Thr Val Ala Ile Pro Arg Asn Ala Glu
 145 150 155 160

Glu Asn Lys Ala Ile Gln Glu Val Ala Thr Gly Ile Ala Phe Leu Gly
 165 170 175

Ile Thr Asp Glu Ala Thr Glu Gly Gln Phe Met Tyr Val Thr Gly Gly
 180 185 190

Arg Leu Thr Tyr Ser Asn Trp Lys Lys Asp Glu Pro Asn Asn His Gly
 195 200 205

Ser Gly Glu Asp Cys Val Ile Ile Leu Asp Asn Gly Leu Trp Asn Asp
 210 215 220

Ile Ser Cys Gln Ala Ser Phe Lys Ala Val Cys Glu Phe Pro Ala
 225 230 235

<210> 24
 <211> 371

<212> PRT
<213> Bos taurus

<400> 24

Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Leu Thr Gln Pro Trp
1 5 10 15

Arg Ser Leu Gly Ala Glu Met Thr Thr Phe Ser Gln Lys Ile Leu Ala
20 25 30

Asn Ala Cys Thr Leu Val Met Cys Ser Pro Leu Glu Ser Gly Leu Pro
35 40 45

Gly His Asp Gly Gln Asp Gly Arg Glu Cys Pro His Gly Glu Lys Gly
50 55 60

Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Arg Pro Gly Trp
65 70 75 80

Val Gly Pro Ile Gly Pro Lys Gly Asp Asn Gly Phe Val Gly Glu Pro
85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Arg Gly Pro Pro Gly Met Pro Gly
100 105 110

Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro
115 120 125

Pro Gly Thr Pro Gly Pro Lys Gly Glu Thr Gly Pro Lys Gly Gly Val
130 135 140

Gly Ala Pro Gly Ile Gln Gly Phe Pro Gly Pro Ser Gly Leu Lys Gly
145 150 155 160

Glu Lys Gly Ala Pro Gly Glu Thr Gly Ala Pro Gly Arg Ala Gly Val
165 170 175

Thr Gly Pro Ser Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg
180 185 190

Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly Glu Thr Gly
195 200 205

Ala Lys Gly Glu Ser Gly Leu Ala Glu Val Asn Ala Leu Lys Gln Arg

210	215	220
Val Thr Ile Leu Asp Gly His Leu Arg Arg Phe Gln Asn Ala Phe Ser		
225	230	235 240
Gln Tyr Lys Lys Ala Val Leu Phe Pro Asp Gly Gln Ala Val Gly Glu		
	245	250 255
Lys Ile Phe Lys Thr Ala Gly Ala Val Lys Ser Tyr Ser Asp Ala Glu		
	260	265 270
Gln Leu Cys Arg Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ser		
	275	280 285
Ala Glu Asn Glu Ala Val Thr Gln Met Val Arg Ala Gln Glu Lys Asn		
	290	295 300
Ala Tyr Leu Ser Met Asn Asp Ile Ser Thr Glu Gly Arg Phe Thr Tyr		
305	310	315 320
Pro Thr Gly Glu Ile Leu Val Tyr Ser Asn Trp Ala Asp Gly Glu Pro		
	325	330 335
Asn Asn Ser Asp Glu Gly Gln Pro Glu Asn Cys Val Glu Ile Phe Pro		
	340	345 350
Asp Gly Lys Trp Asn Asp Val Pro Cys Ser Lys Gln Leu Leu Val Ile		
	355	360 365
Cys Glu Phe		
370		

<210> 25
 <211> 30
 <212> PRT
 <213> Gallus gallus

<400> 25

Leu Leu Thr Cys Asp Lys Pro Glu Glu Lys Met Tyr Ser Cys Pro Ile
1 5 10 15

Ile Gln Cys Ser Ala Pro Ala Val Asn Gly Leu Pro Gly Asp
20 25 30

<210> 26
 <211> 301
 <212> PRT
 <213> Bos taurus

<400> 26

Glu Glu Met Asp Val Tyr Ser Glu Lys Thr Leu Thr Asp Pro Cys Thr
 1 5 10 15

Leu Val Val Cys Ala Pro Pro Ala Asp Ser Leu Arg Gly His Asp Gly
 20 25 30

Arg Asp Gly Lys Glu Gly Pro Gln Gly Glu Lys Gly Asp Pro Gly Pro
 35 40 45

Pro Gly Met Pro Gly Pro Ala Gly Arg Glu Gly Pro Ser Gly Arg Gln
 50 55 60

Gly Ser Met Gly Pro Pro Gly Thr Pro Gly Pro Lys Gly Glu Pro Gly
 65 70 75 80

Pro Glu Gly Gly Val Gly Ala Pro Gly Met Pro Gly Ser Pro Gly Pro
 85 90 95

Ala Gly Leu Lys Gly Glu Arg Gly Ala Pro Gly Pro Gly Gly Ala Ile
 100 105 110

Gly Pro Gln Gly Pro Ser Gly Ala Met Gly Pro Pro Gly Leu Lys Gly
 115 120 125

Asp Arg Gly Asp Pro Gly Glu Lys Gly Ala Arg Gly Glu Thr Ser Val
 130 135 140

Leu Glu Val Asp Thr Leu Arg Gln Arg Met Arg Asn Leu Glu Gly Glu
 145 150 155 160

Val Gln Arg Leu Gln Asn Ile Val Thr Gln Tyr Arg Lys Ala Val Leu
 165 170 175

Phe Pro Asp Gly Gln Ala Val Gly Glu Lys Ile Phe Lys Thr Ala Gly
 180 185 190

Ala Val Lys Ser Tyr Ser Asp Ala Glu Gln Leu Cys Arg Glu Ala Lys
 195 200 205

Gly Gln Leu Ala Ser Pro Arg Ser Ser Ala Glu Asn Glu Ala Val Thr
210 215 220

Gln Leu Val Arg Ala Lys Asn Lys His Ala Tyr Leu Ser Met Asn Asp
225 230 235 240

Ile Ser Lys Glu Gly Lys Phe Thr Tyr Pro Thr Gly Gly Ser Leu Asp
245 250 255

Tyr Ser Asn Trp Ala Pro Gly Glu Pro Asn Asn Arg Ala Lys Asp Glu
260 265 270

Gly Pro Glu Asn Cys Leu Glu Ile Tyr Ser Asp Gly Asn Trp Asn Asp
275 280 285

Ile Glu Cys Arg Glu Glu Arg Leu Val Ile Cys Glu Phe
290 295 300

<210> 27
<211> 116
<212> PRT
<213> Sus scrofa

<400> 27

Ala Val Gly Glu Lys Val Phe Ser Thr Asn Gly Gln Ser Val Ala Phe
1 5 10 15

Asp Val Ile Arg Glu Leu Cys Ala Arg Ala Gly Gly Arg Ile Ala Ala
20 25 30

Pro Arg Ser Pro Glu Glu Asn Glu Ala Ile Ala Ser Ile Val Lys Lys
35 40 45

His Asn Thr Tyr Ala Tyr Leu Gly Leu Val Glu Gly Pro Thr Ala Gly
50 55 60

Asp Phe Phe Tyr Leu Asp Gly Thr Pro Val Asn Tyr Thr Asn Trp Tyr
65 70 75 80

Pro Gly Glu Pro Arg Gly Arg Gly Lys Glu Lys Cys Val Glu Met Tyr
85 90 95

Thr Asp Gly Gln Trp Asn Asp Arg Asn Cys Gln Gln Tyr Arg Leu Ala
100 105 110

Ile Cys Glu Phe
115

<210> 28
<211> 378
<212> PRT
<213> Sus scrofa

<400> 28

Met Leu Leu Leu Pro Leu Ser Val Leu Ile Leu Leu Thr Gln Pro Pro
1 5 10 15

Arg Ser Leu Gly Ala Glu Met Lys Thr Tyr Ser Gln Arg Ala Val Ala
20 25 30

Asn Ala Cys Ala Leu Val Met Cys Ser Pro Met Glu Asn Gly Leu Pro
35 40 45

Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
50 55 60

Asp Pro Gly Leu Pro Gly Ala Val Gly Arg Ala Gly Met Pro Gly Leu
65 70 75 80

Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Thr Gly Glu Pro
85 90 95

Gly Ala Lys Gly Asp Ile Gly Pro Cys Gly Pro Pro Gly Pro Pro Gly
100 105 110

Ile Pro Gly Pro Ala Gly Lys Glu Gly Pro Ser Gly Gln Gln Gly Asn
115 120 125

Ile Gly Pro Pro Gly Thr Pro Gly Pro Lys Gly Glu Thr Gly Pro Lys
130 135 140

Gly Glu Val Gly Ala Leu Gly Met Gln Gly Ser Thr Gly Ala Arg Gly
145 150 155 160

Pro Ala Gly Leu Lys Gly Glu Arg Gly Ala Pro Gly Glu Arg Gly Ala
165 170 175

Pro Gly Ser Ala Gly Ala Ala Gly Pro Ala Gly Ala Thr Gly Pro Gln

180	185	190
Gly Pro Ser Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly 195 200 205		
Pro Pro Gly Glu Arg Gly Ala Lys Gly Glu Ser Gly Leu Pro Gly Ile 210 215 220		
Thr Ala Leu Arg Gln Gln Val Glu Thr Leu Gln Gly Gln Val Gln Arg 225 230 235 240		
Leu Gln Lys Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn 245 250 255		
Gly Arg Gly Val Gly Glu Lys Ile Phe Lys Thr Gly Gly Phe Glu Lys 260 265 270		
Thr Phe Gln Asp Ala Gln Gln Val Cys Thr Gln Ala Gly Gly Gln Met 275 280 285		
Ala Ser Pro Arg Ser Glu Thr Glu Asn Glu Ala Leu Ser Gln Leu Val 290 295 300		
Thr Ala Gln Asn Lys Ala Ala Phe Leu Ser Met Thr Asp Ile Lys Thr 305 310 315 320		
Glu Gly Asn Phe Thr Tyr Pro Thr Gly Glu Pro Leu Val Tyr Ala Asn 325 330 335		
Trp Ala Pro Gly Glu Pro Asn Asn Asn Gly Gly Ser Ser Gly Ala Glu 340 345 350		
Asn Cys Val Glu Ile Phe Pro Asn Gly Lys Trp Asn Asp Lys Ala Cys 355 360 365		
Gly Glu Leu Arg Leu Val Ile Cys Glu Phe 370 375		

<210> 29
 <211> 244
 <212> PRT
 <213> Mus musculus

<400> 29

Met Ser Ile Phe Thr Ser Phe Leu Leu Leu Cys Val Val Thr Val Val
 1 5 10 15
 Tyr Ala Glu Thr Leu Thr Glu Gly Val Gln Asn Ser Cys Pro Val Val
 20 25 30
 Thr Cys Ser Ser Pro Gly Leu Asn Gly Phe Pro Gly Lys Asp Gly Arg
 35 40 45
 Asp Gly Ala Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly Leu Arg Gly
 50 55 60
 Leu Gln Gly Pro Pro Gly Lys Val Gly Pro Thr Gly Pro Pro Gly Asn
 65 70 75 80
 Pro Gly Leu Lys Gly Ala Val Gly Pro Lys Gly Asp Arg Gly Asp Arg
 85 90 95
 Ala Glu Phe Asp Thr Ser Glu Ile Asp Ser Glu Ile Ala Ala Leu Arg
 100 105 110
 Ser Glu Leu Arg Ala Leu Arg Asn Trp Val Leu Phe Ser Leu Ser Glu
 115 120 125
 Lys Val Gly Lys Lys Tyr Phe Val Ser Ser Val Lys Lys Met Ser Leu
 130 135 140
 Asp Arg Val Lys Ala Leu Cys Ser Glu Phe Gln Gly Ser Val Ala Thr
 145 150 155 160
 Pro Arg Asn Ala Glu Glu Asn Ser Ala Ile Gln Lys Val Ala Lys Asp
 165 170 175
 Ile Ala Tyr Leu Gly Ile Thr Asp Val Arg Val Glu Gly Ser Phe Glu
 180 185 190
 Asp Leu Thr Gly Asn Arg Val Arg Tyr Thr Asn Trp Asn Asp Gly Glu
 195 200 205
 Pro Asn Asn Thr Gly Asp Gly Glu Asp Cys Val Val Ile Leu Gly Asn
 210 215 220
 Gly Lys Trp Asn Asp Val Pro Cys Ser Asp Ser Phe Leu Ala Ile Cys
 225 230 235 240

Glu Phe Ser Asp

<210> 30
<211> 239
<212> PRT
<213> Mus musculus

<400> 30

Met Leu Leu Leu Pro Leu Leu Pro Val Leu Leu Cys Val Val Ser Val
1 5 10 15

Ser Ser Ser Gly Ser Gln Thr Cys Glu Asp Thr Leu Lys Thr Cys Ser
20 25 30

Val Ile Ala Cys Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys
35 40 45

Gly Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys
50 55 60

Leu Gly Pro Pro Gly Ser Val Gly Ser Pro Gly Ser Pro Gly Pro Lys
65 70 75 80

Gly Gln Lys Gly Asp His Gly Asp Asn Arg Ala Ile Glu Glu Lys Leu
85 90 95

Ala Asn Met Glu Ala Glu Ile Arg Ile Leu Lys Ser Lys Leu Gln Leu
100 105 110

Thr Asn Lys Leu His Ala Phe Ser Met Gly Lys Lys Ser Gly Lys Lys
115 120 125

Leu Phe Val Thr Asn His Glu Lys Met Pro Phe Ser Lys Val Lys Ser
130 135 140

Leu Cys Thr Glu Leu Gln Gly Thr Val Ala Ile Pro Arg Asn Ala Glu
145 150 155 160

Glu Asn Lys Ala Ile Gln Glu Val Ala Thr Gly Ile Ala Phe Leu Gly
165 170 175

Ile Thr Asp Glu Ala Thr Glu Gly Gln Phe Met Tyr Val Thr Gly Gly

180	185	190
Arg Leu Thr Tyr Ser Asn Trp Lys Lys Asp Glu Pro Asn Asn His Gly		
195	200	205
Ser Gly Glu Asp Cys Val Ile Ile Leu Asp Asn Gly Leu Trp Asn Asp		
210	215	220
Ile Ser Cys Gln Ala Ser Phe Lys Ala Val Cys Glu Phe Pro Ala		
225	230	235
<210> 31		
<211> 301		
<212> PRT		
<213> Bos taurus		
<400> 31		
Glu Glu Met Asp Val Tyr Ser Glu Lys Thr Leu Thr Asp Pro Cys Thr		
1	5	10
Leu Val Val Cys Ala Pro Pro Ala Asp Ser Leu Arg Gly His Asp Gly		
20	25	30
Arg Asp Gly Lys Glu Gly Pro Gln Gly Glu Lys Gly Asp Pro Gly Pro		
35	40	45
Pro Gly Met Pro Gly Pro Ala Gly Arg Glu Gly Pro Ser Gly Arg Gln		
50	55	60
Gly Ser Met Gly Pro Pro Gly Thr Pro Gly Pro Lys Gly Glu Pro Gly		
65	70	75
Pro Glu Gly Gly Val Gly Ala Pro Gly Met Pro Gly Ser Pro Gly Pro		
85	90	95
Ala Gly Leu Lys Gly Glu Arg Gly Ala Pro Gly Pro Gly Gly Ala Ile		
100	105	110
Gly Pro Gln Gly Pro Ser Gly Ala Met Gly Pro Pro Gly Leu Lys Gly		
115	120	125
Asp Arg Gly Asp Pro Gly Glu Lys Gly Ala Arg Gly Glu Thr Ser Val		
130	135	140

Leu Glu Val Asp Thr Leu Arg Gln Arg Met Arg Asn Leu Glu Gly Glu
 145 150 155 160

Val Gln Arg Leu Gln Asn Ile Val Thr Gln Tyr Arg Lys Ala Val Leu
 165 170 175

Phe Pro Asp Gly Gln Ala Val Gly Glu Lys Ile Phe Lys Thr Ala Gly
 180 185 190

Ala Val Lys Ser Tyr Ser Asp Ala Glu Gln Leu Cys Arg Glu Ala Lys
 195 200 205

Gly Gln Leu Ala Ser Pro Arg Ser Ser Ala Glu Asn Glu Ala Val Thr
 210 215 220

Gln Leu Val Arg Ala Lys Asn Lys His Ala Tyr Leu Ser Met Asn Asp
 225 230 235 240

Ile Ser Lys Glu Gly Lys Phe Thr Tyr Pro Thr Gly Gly Ser Leu Asp
 245 250 255

Tyr Ser Asn Trp Ala Pro Gly Glu Pro Gly Asn Arg Ala Lys Asp Glu
 260 265 270

Gly Pro Glu Asn Cys Leu Glu Ile Tyr Ser Asp Gly Asn Trp Asn Asp
 275 280 285

Ile Glu Cys Arg Glu Glu Arg Leu Val Ile Cys Glu Phe
 290 295 300

<210> 32
 <211> 2412
 <212> PRT
 <213> Homo sapiens

<400> 32

Met Gly Ile Ser Thr Val Ile Leu Glu Met Cys Leu Leu Trp Gly Gln
 1 5 10 15

Val Leu Ser Thr Gly Gly Trp Ile Pro Arg Thr Thr Asp Tyr Ala Ser
 20 25 30

Leu Ile Pro Ser Glu Val Pro Leu Asp Thr Thr Val Ala Glu Gly Ser
 35 40 45

Pro Phe Pro Ser Glu Leu Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
 50 55 60

Pro Ile Ser Leu Glu Ser Thr Leu Glu Thr Thr Val Ala Glu Gly Ser
 65 70 75 80

Leu Ile Pro Ser Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
 85 90 95

Asp Ser Gly Leu Ala Leu Arg Leu Val Asn Gly Asp Gly Arg Cys Gln
 100 105 110

Gly Arg Val Glu Ile Leu Tyr Arg Gly Ser Trp Gly Ala Val Cys Asp
 115 120 125

Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly
 130 135 140

Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Trp Phe Gly Gln Gly
 145 150 155 160

Ser Gly Pro Ile Ala Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser
 165 170 175

Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
 180 185 190

His Gly Glu Asp Ala Gly Val Ile Cys Ser Ala Ala Gln Pro Gln Ser
 195 200 205

Thr Leu Arg Pro Glu Ser Trp Pro Val Arg Ile Ser Pro Pro Val Pro
 210 215 220

Thr Glu Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 225 230 235 240

Asp Arg Cys Arg Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
 245 250 255

Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys
 260 265 270

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln

275	280	285
Phe Gly Gln Gly Ser Gly	Pro Ile Val Leu Asp	Asp Val Arg Cys Ser
290	295	300
Gly His Glu Ser Tyr Leu Trp	Ser Cys Pro His Asn Gly	Trp Leu Thr
305	310	315 320
His Asn Cys Gly His Ser Glu Asp	Ala Gly Val Ile Cys Ser	Ala Pro
325	330	335
Gln Ser Arg Pro Thr Pro Ser Pro	Asp Thr Trp Pro Thr Ser His	Ala
340	345	350
Ser Thr Ala Gly Pro Glu Ser Ser	Leu Ala Leu Arg Leu Val Asn Gly	
355	360	365
Gly Asp Arg Cys Gln Gly Arg Val	Glu Val Leu Tyr Arg Gly Ser Trp	
370	375	380
Gly Thr Val Cys Asp Asp Ser Trp	Asp Thr Ser Asp Ala Asn Val Val	
385	390	395 400
Cys Arg Gln Leu Gly Cys Gly Trp	Ala Thr Ser Ala Pro Gly Asn Ala	
405	410	415
Arg Phe Gly Gln Gly Ser Gly Pro	Ile Val Leu Asp Asp Val Arg Cys	
420	425	430
Ser Gly Tyr Glu Ser Tyr Leu Trp	Ser Cys Pro His Asn Gly Trp Leu	
435	440	445
Ser His Asn Cys Gln His Ser Glu	Asp Ala Gly Val Ile Cys Ser Ala	
450	455	460
Ala His Ser Trp Ser Thr Pro Ser	Pro Asp Thr Leu Pro Thr Ile Thr	
465	470	475 480
Leu Pro Ala Ser Thr Val Gly Ser	Glu Ser Ser Leu Ala Leu Arg Leu	
485	490	495
Val Asn Gly Gly Asp Arg Cys Gln	Gly Arg Val Glu Val Leu Tyr Arg	
500	505	510

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala
515 520 525

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Leu Ala Pro
530 535 540

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
545 550 555 560

Val Arg Cys Ser Gly Asn Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
565 570 575

Gly Trp Leu Ser His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile
580 585 590

Cys Ser Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
595 600 605

Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
610 615 620

Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys
625 630 635 640

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Arg
645 650 655

Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
660 665 670

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro Asn Asn Gly Trp Leu Ser
675 680 685

His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ala
690 695 700

Gln Ser Arg Ser Thr Pro Arg Pro Asp Thr Leu Ser Thr Ile Thr Leu
705 710 715 720

Pro Pro Ser Thr Val Gly Ser Glu Ser Ser Leu Thr Leu Arg Leu Val
725 730 735

Asn Gly Ser Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly

740

745

750

Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn
755 760 765

Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro Gly
770 775 780

Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val
785 790 795 800

Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly
805 810 815

Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys
820 825 830

Ser Val Ser Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr
835 840 845

Ser His Ala Ser Thr Ala Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu
850 855 860

Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg
865 870 875 880

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala
885 890 895

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro
900 905 910

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
915 920 925

Val Arg Cys Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
930 935 940

Gly Trp Leu Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile
945 950 955 960

Cys Ser Ala Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro
965 970 975

Thr Ile Thr Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala
 980 985 990

Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val
 995 1000 1005

Leu Tyr Gln Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp
 1010 1015 1020

Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp
 1025 1030 1035

Ala Met Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly
 1040 1045 1050

Pro Ile Val Leu Asp Asp Ala Arg Cys Ser Gly His Glu Ser Tyr
 1055 1060 1065

Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
 1070 1075 1080

His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Ser Gln Ser Arg
 1085 1090 1095

Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala Ser Thr
 1100 1105 1110

Ala Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 1115 1120 1125

Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp
 1130 1135 1140

Gly Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val
 1145 1150 1155

Ala Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly
 1160 1165 1170

Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
 1175 1180 1185

Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His

1190		1195		1200
Asn Gly Trp Leu Ser His	Asn Cys Gly His His	Glu Asp Ala Gly		
1205	1210	1215		
Val Ile Cys Ser Ala Ser	Gln Ser Gln Pro Thr	Pro Ser Pro Asp		
1220	1225	1230		
Thr Trp Pro Thr Ser His	Ala Ser Thr Ala Gly	Ser Glu Ser Ser		
1235	1240	1245		
Leu Ala Leu Arg Leu Val	Asn Gly Gly Asp Arg	Cys Gln Gly Arg		
1250	1255	1260		
Val Glu Val Leu Tyr Arg	Gly Ser Trp Gly Thr	Val Cys Asp Asp		
1265	1270	1275		
Tyr Trp Asp Thr Asn Asp	Ala Asn Val Val Cys	Arg Gln Leu Gly		
1280	1285	1290		
Cys Gly Trp Ala Thr Ser	Ala Pro Gly Asn Ala	Arg Phe Gly Gln		
1295	1300	1305		
Gly Ser Gly Pro Ile Val	Leu Asp Asp Val Arg	Cys Ser Gly His		
1310	1315	1320		
Glu Ser Tyr Leu Trp Ser	Cys Pro His Asn Gly	Trp Leu Ser His		
1325	1330	1335		
Asn Cys Gly His His Glu	Asp Ala Gly Val Ile	Cys Ser Ala Ser		
1340	1345	1350		
Gln Ser Gln Pro Thr Pro	Ser Pro Asp Thr Trp	Pro Thr Ser His		
1355	1360	1365		
Ala Ser Thr Ala Gly Ser	Glu Ser Ser Leu Ala	Leu Arg Leu Val		
1370	1375	1380		
Asn Gly Gly Asp Arg Cys	Gln Gly Arg Val Glu	Val Leu Tyr Arg		
1385	1390	1395		
Gly Ser Trp Gly Thr Val	Cys Asp Asp Tyr Trp	Asp Thr Asn Asp		
1400	1405	1410		

Ala Asn	Val Val	Cys Arg	Gln	Leu Gly	Cys Gly	Trp	Ala Thr	Ser	
1415			1420			1425			
Ala Pro	Gly Asn	Ala Arg	Phe	Gly Gln	Gly Ser	Gly	Pro Ile	Val	
1430			1435			1440			
Leu Asp	Asp Val	Arg Cys	Ser	Gly His	Glu Ser	Tyr	Leu Trp	Ser	
1445			1450			1455			
Cys Pro	His Asn	Gly Trp	Leu	Ser His	Asn Cys	Gly	His His	Glu	
1460			1465			1470			
Asp Ala	Gly Val	Ile Cys	Ser	Ala Phe	Gln Ser	Gln	Pro Thr	Pro	
1475			1480			1485			
Ser Pro	Asp Thr	Trp Pro	Thr	Ser Arg	Ala Ser	Thr	Ala Gly	Ser	
1490			1495			1500			
Glu Ser	Thr Leu	Ala Leu	Arg	Leu Val	Asn Gly	Gly	Asp Arg	Cys	
1505			1510			1515			
Arg Gly	Arg Val	Glu Val	Leu	Tyr Gln	Gly Ser	Trp	Gly Thr	Val	
1520			1525			1530			
Cys Asp	Asp Tyr	Trp Asp	Thr	Asn Asp	Ala Asn	Val	Val Cys	Arg	
1535			1540			1545			
Gln Leu	Gly Cys	Gly Trp	Ala	Met Ser	Ala Pro	Gly	Asn Ala	Gln	
1550			1555			1560			
Phe Gly	Gln Gly	Ser Gly	Pro	Ile Val	Leu Asp	Asp	Val Arg	Cys	
1565			1570			1575			
Ser Gly	His Glu	Pro Tyr	Leu	Trp Ser	Cys Pro	His	Asn Gly	Trp	
1580			1585			1590			
Leu Ser	His Asn	Cys Gly	His	His Glu	Asp Ala	Gly	Val Ile	Cys	
1595			1600			1605			
Ser Ala	Ala Gln	Ser Gln	Ser	Thr Pro	Arg Pro	Asp	Thr Trp	Leu	
1610			1615			1620			
Thr Thr	Asn Leu	Pro Ala	Leu	Thr Val	Gly Ser	Glu	Ser Ser	Leu	

1625		1630		1635
Ala Leu Arg Leu Val Asn Gly	Gly Asp Arg Cys Arg Gly Arg Val			
1640	1645	1650		
Glu Val Leu Tyr Arg Gly Ser	Trp Gly Thr Val Cys Asp Asp Ser			
1655	1660	1665		
Trp Asp Thr Asn Asp Ala Asn	Val Val Cys Arg Gln Leu Gly Cys			
1670	1675	1680		
Gly Trp Ala Met Ser Ala Pro	Gly Asn Ala Arg Phe Gly Gln Gly			
1685	1690	1695		
Ser Gly Pro Ile Val Leu Gly	Asp Val Arg Cys Ser Gly Asn Glu			
1700	1705	1710		
Ser Tyr Leu Trp Ser Cys Pro	His Lys Gly Trp Leu Thr His Asn			
1715	1720	1725		
Cys Gly His His Glu Asp Ala	Gly Val Ile Cys Ser Ala Thr Gln			
1730	1735	1740		
Ile Asn Ser Thr Thr Thr Asp	Trp Trp His Pro Thr Thr Thr Thr			
1745	1750	1755		
Thr Ala Arg Pro Ser Ser Asn	Cys Gly Gly Phe Leu Phe Tyr Ala			
1760	1765	1770		
Ser Gly Thr Phe Ser Ser Pro	Ser Tyr Pro Ala Tyr Tyr Pro Asn			
1775	1780	1785		
Asn Ala Lys Cys Val Trp Glu	Ile Glu Val Asn Ser Gly Tyr Arg			
1790	1795	1800		
Ile Asn Leu Gly Phe Ser Asn	Leu Lys Leu Glu Ala His His Asn			
1805	1810	1815		
Cys Ser Phe Asp Tyr Val Glu	Ile Phe Asp Gly Ser Leu Asn Ser			
1820	1825	1830		
Ser Leu Leu Leu Gly Lys Ile	Cys Asn Asp Thr Arg Gln Ile Phe			
1835	1840	1845		

Thr Ser Ser Tyr Asn Arg Met Thr Ile His Phe Arg Ser Asp Ile	1850	1855	1860
Ser Phe Gln Asn Thr Gly Phe Leu Ala Trp Tyr Asn Ser Phe Pro	1865	1870	1875
Ser Asp Ala Thr Leu Arg Leu Val Asn Leu Asn Ser Ser Tyr Gly	1880	1885	1890
Leu Cys Ala Gly Arg Val Glu Ile Tyr His Gly Gly Thr Trp Gly	1895	1900	1905
Ala Val Cys Asp Asp Ser Trp Thr Ile Gln Glu Ala Glu Val Val	1910	1915	1920
Cys Arg Gln Leu Gly Cys Gly Arg Ala Val Ser Ala Leu Gly Asn	1925	1930	1935
Ala Tyr Phe Gly Ser Gly Ser Gly Pro Ile Thr Leu Asp Asp Val	1940	1945	1950
Glu Cys Ser Gly Thr Glu Ser Thr Leu Trp Gln Cys Arg Asn Arg	1955	1960	1965
Gly Trp Phe Ser His Asn Cys Asn His Arg Glu Asp Ala Gly Val	1970	1975	1980
Ile Cys Ser Gly Asn His Leu Ser Thr Pro Ala Pro Phe Leu Asn	1985	1990	1995
Ile Thr Arg Pro Asn Asn Tyr Ser Cys Gly Gly Phe Leu Ser Gln	2000	2005	2010
Pro Ser Gly Asp Phe Ser Ser Pro Phe Tyr Pro Gly Asn Tyr Pro	2015	2020	2025
Asn Asn Ala Lys Cys Val Trp Asp Ile Glu Val Gln Asn Asn Tyr	2030	2035	2040
Arg Val Thr Val Ile Phe Arg Asp Val Gln Leu Glu Gly Gly Cys	2045	2050	2055
Asn Tyr Asp Tyr Ile Glu Val Phe Asp Gly Pro Tyr Arg Ser Ser			

2060		2065		2070
Pro Leu Ile Ala Arg Val Cys Asp Gly Ala Arg Gly Ser Phe Thr				
2075		2080		2085
Ser Ser Ser Asn Phe Met Ser Ile Arg Phe Ile Ser Asp His Ser				
2090		2095		2100
Ile Thr Arg Arg Gly Phe Arg Ala Glu Tyr Tyr Ser Ser Pro Ser				
2105		2110		2115
Asn Asp Ser Thr Asn Leu Leu Cys Leu Pro Asn His Met Gln Ala				
2120		2125		2130
Ser Val Ser Arg Ser Tyr Leu Gln Ser Leu Gly Phe Ser Ala Ser				
2135		2140		2145
Asp Leu Val Ile Ser Thr Trp Asn Gly Tyr Tyr Glu Cys Arg Pro				
2150		2155		2160
Gln Ile Thr Pro Asn Leu Val Ile Phe Thr Ile Pro Tyr Ser Gly				
2165		2170		2175
Cys Gly Thr Phe Lys Gln Ala Asp Asn Asp Thr Ile Asp Tyr Ser				
2180		2185		2190
Asn Leu Leu Thr Ala Ala Val Ser Gly Gly Ile Ile Lys Arg Arg				
2195		2200		2205
Thr Asp Leu Arg Ile His Val Ser Cys Arg Met Leu Gln Asn Thr				
2210		2215		2220
Trp Val Asp Thr Met Tyr Ile Ala Asn Asp Thr Ile His Val Ala				
2225		2230		2235
Asn Asn Thr Ile Gln Val Glu Glu Val Gln Tyr Gly Asn Phe Asp				
2240		2245		2250
Val Asn Ile Ser Phe Tyr Thr Ser Ser Ser Phe Leu Tyr Pro Val				
2255		2260		2265
Thr Ser Arg Pro Tyr Tyr Val Asp Leu Asn Gln Asp Leu Tyr Val				
2270		2275		2280

Gln Ala Glu Ile Leu His Ser Asp Ala Val Leu Thr Leu Phe Val
 2285 2290 2295

Asp Thr Cys Val Ala Ser Pro Tyr Ser Asn Asp Phe Thr Ser Leu
 2300 2305 2310

Thr Tyr Asp Leu Ile Arg Ser Gly Cys Val Arg Asp Asp Thr Tyr
 2315 2320 2325

Gly Pro Tyr Ser Ser Pro Ser Leu Arg Ile Ala Arg Phe Arg Phe
 2330 2335 2340

Arg Ala Phe His Phe Leu Asn Arg Phe Pro Ser Val Tyr Leu Arg
 2345 2350 2355

Cys Lys Met Val Val Cys Arg Ala Tyr Asp Pro Ser Ser Arg Cys
 2360 2365 2370

Tyr Arg Gly Cys Val Leu Arg Ser Lys Arg Asp Val Gly Ser Tyr
 2375 2380 2385

Gln Glu Lys Val Asp Val Val Leu Gly Pro Ile Gln Leu Gln Thr
 2390 2395 2400

Pro Pro Arg Arg Glu Glu Glu Pro Arg
 2405 2410

<210> 33
 <211> 277
 <212> PRT
 <213> Homo sapiens

<400> 33

Met Asn Gly Phe Ala Ser Leu Leu Arg Arg Asn Gln Phe Ile Leu Leu
 1 5 10 15

Val Leu Phe Leu Leu Gln Ile Gln Ser Leu Gly Leu Asp Ile Asp Ser
 20 25 30

Arg Pro Thr Ala Glu Val Cys Ala Thr His Thr Ile Ser Pro Gly Pro
 35 40 45

Lys Gly Asp Asp Gly Glu Lys Gly Asp Pro Gly Glu Glu Gly Lys His
 50 55 60

Gly Lys Val Gly Arg Met Gly Pro Lys Gly Ile Lys Gly Glu Leu Gly
 65 70 75 80

Asp Met Gly Asp Arg Gly Asn Ile Gly Lys Thr Gly Pro Ile Gly Lys
 85 90 95

Lys Gly Asp Lys Gly Glu Lys Gly Leu Leu Gly Ile Pro Gly Glu Lys
 100 105 110

Gly Lys Ala Gly Thr Val Cys Asp Cys Gly Arg Tyr Arg Lys Phe Val
 115 120 125

Gly Gln Leu Asp Ile Ser Ile Ala Arg Leu Lys Thr Ser Met Lys Phe
 130 135 140

Val Lys Asn Val Ile Ala Gly Ile Arg Glu Thr Glu Glu Lys Phe Tyr
 145 150 155 160

Tyr Ile Val Gln Glu Glu Lys Asn Tyr Arg Glu Ser Leu Thr His Cys
 165 170 175

Arg Ile Arg Gly Gly Met Leu Ala Met Pro Lys Asp Glu Ala Ala Asn
 180 185 190

Thr Leu Ile Ala Asp Tyr Val Ala Lys Ser Gly Phe Phe Arg Val Phe
 195 200 205

Ile Gly Val Asn Asp Leu Glu Arg Glu Gly Gln Tyr Met Phe Thr Asp
 210 215 220

Asn Thr Pro Leu Gln Asn Tyr Ser Asn Trp Asn Glu Gly Glu Pro Ser
 225 230 235 240

Asp Pro Tyr Gly His Glu Asp Cys Val Glu Met Leu Ser Ser Gly Arg
 245 250 255

Trp Asn Asp Thr Glu Cys His Leu Thr Met Tyr Phe Val Cys Glu Phe
 260 265 270

Ile Lys Lys Lys Lys
 275

<210> 34
 <211> 238
 <212> PRT
 <213> Gallus gallus

<400> 34

Met Met Ala Thr Ser Leu Leu Thr Thr Asp Lys Pro Glu Glu Lys Met
 1 5 10 15

Tyr Ser Cys Pro Ile Ile Gln Cys Ser Ala Pro Ala Val Asn Gly Leu
 20 25 30

Pro Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys Gly Asp Pro
 35 40 45

Gly Glu Gly Leu Arg Gly Leu Gln Gly Leu Pro Gly Lys Ala Gly Pro
 50 55 60

Gln Gly Leu Lys Gly Glu Val Gly Pro Gln Gly Glu Lys Gly Gln Lys
 65 70 75 80

Gly Glu Arg Gly Ile Val Val Thr Asp Asp Leu His Arg Gln Ile Thr
 85 90 95

Asp Leu Glu Ala Lys Ile Arg Val Leu Glu Asp Asp Leu Ser Arg Tyr
 100 105 110

Lys Lys Ala Leu Ser Leu Lys Asp Val Val Asn Ile Gly Lys Lys Met
 115 120 125

Phe Val Ser Thr Gly Lys Lys Tyr Asn Phe Glu Lys Gly Lys Ser Leu
 130 135 140

Cys Ala Lys Ala Gly Ser Val Leu Ala Ser Pro Arg Asn Glu Ala Glu
 145 150 155 160

Asn Thr Ala Leu Lys Asp Leu Ile Asp Pro Ser Ser Gln Ala Tyr Ile
 165 170 175

Gly Ile Ser Asp Ala Gln Thr Glu Gly Arg Phe Met Tyr Leu Ser Gly
 180 185 190

Gly Pro Leu Thr Tyr Ser Asn Trp Lys Pro Gly Glu Pro Asn Asn His
 195 200 205

Lys Asn Glu Asp Cys Ala Val Ile Glu Asp Ser Gly Lys Trp Asn Asp
 210 215 220

Leu Asp Cys Ser Asn Ser Asn Ile Phe Ile Ile Cys Glu Leu
 225 230 235

<210> 35
 <211> 30
 <212> PRT
 <213> Gallus gallus

<400> 35

Leu Leu Thr Cys Asp Lys Pro Glu Glu Lys Met Tyr Ser Cys Pro Ile
 1 5 10 15

Ile Gln Cys Ser Ala Pro Ala Val Asn Gly Leu Pro Gly Asp
 20 25 30

<210> 36
 <211> 60
 <212> PRT
 <213> Bos taurus

<400> 36

Ala Glu Met Thr Thr Phe Ser Gln Lys Ile Leu Ala Asn Ala Cys Thr
 1 5 10 15

Leu Val Met Cys Ser Pro Leu Glu Ser Gly Leu Pro Gly His Asp Gly
 20 25 30

Gln Asp Gly Arg Glu Cys Pro His Gly Glu Lys Gly Asp Pro Gly Ser
 35 40 45

Pro Gly Pro Ala Gly Arg Ala Gly Arg Pro Gly Trp
 50 55 60

<210> 37
 <211> 301
 <212> PRT
 <213> Bos taurus

<220>
 <221> MISC_FEATURE
 <222> (7)..()
 <223> Unknown

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> Unknown

<400> 37

Glu Glu Met Asp Val Tyr Xaa Glu Lys Thr Leu Thr Asp Pro Cys Thr
 1 5 10 15

Leu Val Val Cys Ala Pro Pro Ala Asp Ser Leu Arg Gly His Asp Gly
 20 25 30

Arg Asp Gly Lys Glu Gly Pro Gln Gly Glu Lys Gly Asp Pro Gly Pro
 35 40 45

Pro Gly Met Pro Gly Pro Ala Gly Arg Glu Gly Pro Ser Gly Arg Gln
 50 55 60

Gly Ser Met Gly Pro Pro Gly Thr Pro Gly Pro Lys Gly Glu Pro Gly
 65 70 75 80

Pro Glu Gly Gly Val Gly Ala Pro Gly Met Pro Gly Ser Pro Gly Pro
 85 90 95

Ala Gly Leu Lys Gly Glu Arg Gly Ala Pro Gly Pro Gly Gly Ala Ile
 100 105 110

Gly Pro Gln Gly Pro Ser Gly Ala Met Gly Pro Pro Gly Leu Lys Gly
 115 120 125

Asp Arg Gly Asp Pro Gly Glu Lys Gly Ala Arg Gly Glu Thr Ser Val
 130 135 140

Leu Glu Val Asp Thr Leu Arg Gln Arg Met Arg Asn Leu Glu Gly Glu
 145 150 155 160

Val Gln Arg Leu Gln Asn Ile Val Thr Gln Tyr Arg Lys Ala Val Leu
 165 170 175

Phe Pro Asp Gly Gln Ala Val Gly Glu Lys Ile Phe Lys Thr Ala Gly
 180 185 190

Ala Val Lys Ser Tyr Ser Asp Ala Glu Gln Leu Cys Arg Glu Ala Lys
 195 200 205

Gly Gln Leu Ala Ser Pro Arg Ser Ser Ala Glu Asn Glu Ala Val Thr
 210 215 220

Gln Leu Val Arg Ala Lys Asn Lys His Ala Tyr Leu Ser Met Asn Asp
 225 230 235 240

Ile Ser Lys Glu Gly Lys Phe Thr Tyr Pro Thr Gly Gly Ser Leu Asp
 245 250 255

Tyr Ser Asn Trp Ala Pro Gly Glu Pro Gly Asn Arg Ala Lys Asp Glu
 260 265 270

Gly Pro Glu Asn Cys Leu Glu Ile Tyr Ser Asp Gly Asn Trp Asn Asp
 275 280 285

Ile Glu Cys Arg Glu Glu Arg Leu Val Ile Cys Glu Phe
 290 295 300

<210> 38
 <211> 244
 <212> PRT
 <213> Mus musculus

<400> 38

Met Ser Ile Phe Thr Ser Phe Leu Leu Leu Cys Val Val Thr Val Val
 1 5 10 15

Tyr Ala Glu Thr Leu Thr Glu Gly Val Gln Asn Ser Cys Pro Val Val
 20 25 30

Thr Cys Ser Ser Pro Gly Leu Asn Gly Phe Pro Gly Lys Asp Gly Arg
 35 40 45

Asp Gly Ala Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly Leu Arg Gly
 50 55 60

Leu Gln Gly Pro Pro Gly Lys Val Gly Pro Thr Gly Pro Pro Gly Asn
 65 70 75 80

Pro Gly Leu Lys Gly Ala Val Gly Pro Lys Gly Asp Arg Gly Asp Arg
 85 90 95

Ala Glu Phe Asp Thr Ser Glu Ile Asp Ser Glu Ile Ala Ala Leu Arg

100

105

110

Ser Glu Leu Arg Ala Leu Arg Asn Trp Val Leu Phe Ser Leu Ser Glu
 115 120 125

Lys Val Gly Lys Lys Tyr Phe Val Ser Ser Val Lys Lys Met Ser Leu
 130 135 140

Asp Arg Val Lys Ala Leu Cys Ser Glu Phe Gln Gly Ser Val Ala Thr
 145 150 155 160

Pro Arg Asn Ala Glu Glu Asn Ser Ala Ile Gln Lys Val Ala Lys Asp
 165 170 175

Ile Ala Tyr Leu Gly Ile Thr Asp Val Arg Val Glu Gly Ser Phe Glu
 180 185 190

Asp Leu Thr Gly Asn Arg Val Arg Tyr Thr Asn Trp Asn Asp Gly Glu
 195 200 205

Pro Asn Asn Thr Gly Asp Gly Glu Asp Cys Val Val Ile Leu Gly Asn
 210 215 220

Gly Lys Trp Asn Asp Val Pro Cys Ser Asp Ser Phe Leu Ala Ile Cys
 225 230 235 240

Glu Phe Ser Asp

<210> 39
 <211> 239
 <212> PRT
 <213> Mus musculus

<400> 39

Met Leu Leu Leu Pro Leu Leu Pro Val Leu Leu Cys Val Val Ser Val
 1 5 10 15

Ser Ser Ser Gly Ser Gln Thr Cys Glu Asp Thr Leu Lys Thr Cys Ser
 20 25 30

Val Ile Ala Cys Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys
 35 40 45

Gly Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys
 50 55 60

Leu Gly Pro Pro Gly Ser Val Gly Ser Pro Gly Ser Pro Gly Pro Lys
 65 70 75 80

Gly Gln Lys Gly Asp His Gly Asp Asn Arg Ala Ile Glu Glu Lys Leu
 85 90 95

Ala Asn Met Glu Ala Glu Ile Arg Ile Leu Lys Ser Lys Leu Gln Leu
 100 105 110

Thr Asn Lys Leu His Ala Phe Ser Met Gly Lys Lys Ser Gly Lys Lys
 115 120 125

Leu Phe Val Thr Asn His Glu Lys Met Pro Phe Ser Lys Val Lys Ser
 130 135 140

Leu Cys Thr Glu Leu Gln Gly Thr Val Ala Ile Pro Arg Asn Ala Glu
 145 150 155 160

Glu Asn Lys Ala Ile Gln Glu Val Ala Thr Gly Ile Ala Phe Leu Gly
 165 170 175

Ile Thr Asp Glu Ala Thr Glu Gly Gln Phe Met Tyr Val Thr Gly Gly
 180 185 190

Arg Leu Thr Tyr Ser Asn Trp Lys Lys Asp Glu Pro Asn Asn His Gly
 195 200 205

Ser Gly Glu Asp Cys Val Ile Ile Leu Asp Asn Gly Leu Trp Asn Asp
 210 215 220

Ile Ser Cys Gln Ala Ser Phe Lys Ala Val Cys Glu Phe Pro Ala
 225 230 235

<210> 40
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 40

Cys Arg Ala Leu Ile Lys Arg Ile Gln Ala Met Ile Pro Lys Gly
 1 5 10 15

<210> 41
 <211> 374
 <212> PRT
 <213> Mus musculus

<400> 41

Met Leu Pro Phe Leu Ser Met Leu Val Leu Leu Val Gln Pro Leu Gly
 1 5 10 15

Asn Leu Gly Ala Glu Met Lys Ser Leu Ser Gln Arg Ser Val Pro Asn
 20 25 30

Thr Cys Thr Leu Val Met Cys Ser Pro Thr Glu Asn Gly Leu Pro Gly
 35 40 45

Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly Asp
 50 55 60

Pro Gly Leu Pro Gly Pro Met Gly Leu Ser Gly Leu Gln Gly Pro Thr
 65 70 75 80

Gly Pro Val Gly Pro Lys Gly Glu Asn Gly Ser Ala Gly Glu Pro Gly
 85 90 95

Pro Lys Gly Glu Arg Gly Leu Ser Gly Pro Pro Gly Leu Pro Gly Ile
 100 105 110

Pro Gly Pro Ala Gly Lys Glu Gly Pro Ser Gly Lys Gln Gly Asn Ile
 115 120 125

Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys Gly
 130 135 140

Glu Val Gly Ala Pro Gly Met Gln Gly Ser Thr Gly Ala Lys Gly Ser
 145 150 155 160

Thr Gly Pro Lys Gly Glu Arg Gly Ala Pro Gly Val Gln Gly Ala Pro
 165 170 175

Gly Asn Ala Gly Ala Ala Gly Pro Ala Gly Pro Ala Gly Pro Gln Gly
 180 185 190

Ala Pro Gly Ser Arg Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Val
 195 200 205

Pro Gly Asp Arg Gly Ile Lys Gly Glu Ser Gly Leu Pro Asp Ser Ala
210 215 220

Ala Leu Arg Gln Gln Met Glu Ala Leu Lys Gly Lys Leu Gln Arg Leu
225 230 235 240

Glu Val Ala Phe Ser His Tyr Gln Lys Ala Ala Leu Phe Pro Asp Gly
245 250 255

Arg Ser Val Gly Asp Lys Ile Phe Arg Thr Ala Asp Ser Glu Lys Pro
260 265 270

Phe Glu Asp Ala Gln Glu Met Cys Lys Gln Ala Gly Gly Gln Leu Ala
275 280 285

Ser Pro Arg Ser Ala Thr Glu Asn Ala Ala Ile Gln Gln Leu Ile Thr
290 295 300

Ala His Asn Lys Ala Ala Phe Leu Ser Met Thr Asp Val Gly Thr Glu
305 310 315 320

Gly Lys Phe Thr Tyr Pro Thr Gly Glu Pro Leu Val Tyr Ser Asn Trp
325 330 335

Ala Pro Gly Glu Pro Asn Asn Asn Gly Gly Ala Glu Asn Cys Val Glu
340 345 350

Ile Phe Thr Asn Gly Gln Trp Asn Asp Lys Ala Cys Gly Glu Gln Arg
355 360 365

Leu Val Ile Cys Glu Phe
370

<210> 42

<211> 248

<212> PRT

<213> Canis familiaris

<400> 42

Met Trp Leu Arg Cys Leu Ala Leu Ala Leu Thr Leu Leu Met Val Ser
1 5 10 15

Gly Ile Glu Asn Asn Thr Lys Asp Val Cys Val Gly Asn Pro Gly Ile

20

25

30

Pro Gly Thr Pro Gly Ser His Gly Leu Pro Gly Arg Asp Gly Arg Asp
 35 40 45

Gly Val Lys Gly Asp Pro Gly Pro Pro Gly Pro Leu Gly Pro Pro Gly
 50 55 60

Gly Met Pro Gly His Pro Gly Pro Asn Gly Met Thr Gly Ala Pro Gly
 65 70 75 80

Val Ala Gly Glu Arg Gly Glu Lys Gly Glu Pro Gly Glu Arg Gly Pro
 85 90 95

Pro Gly Leu Pro Ala Ser Leu Asp Glu Glu Leu Gln Thr Thr Leu His
 100 105 110

Asp Leu Arg His Gln Ile Leu Gln Thr Met Gly Val Leu Ser Leu His
 115 120 125

Glu Ser Leu Leu Val Val Gly Arg Lys Val Phe Ser Ser Asn Ala Gln
 130 135 140

Ser Ile Asn Phe Asn Asp Ile Gln Glu Leu Cys Ala Gly Ala Gly Gly
 145 150 155 160

Gln Ile Ala Ala Pro Met Ser Pro Glu Glu Asn Glu Ala Val Ala Ser
 165 170 175

Ile Val Lys Lys Tyr Asn Thr Tyr Ala Tyr Leu Gly Leu Val Glu Ser
 180 185 190

Pro Asp Ser Gly Asp Phe Gln Tyr Met Asp Gly Ala Pro Val Asn Tyr
 195 200 205

Thr Asn Trp Tyr Pro Gly Glu Pro Arg Gly Arg Gly Lys Glu Gln Cys
 210 215 220

Val Glu Met Tyr Thr Asp Gly Gln Trp Asn Asn Lys Asn Cys Leu Gln
 225 230 235 240

Tyr Arg Leu Ala Ile Cys Glu Phe
 245

<210> 43
 <211> 375
 <212> PRT
 <213> Homo sapiens
 <400> 43

Met Leu Leu Phe Leu Leu Ser Ala Leu Val Leu Leu Thr Gln Pro Leu
 1 5 10 15

Gly Tyr Leu Glu Ala Glu Met Lys Thr Tyr Ser His Arg Thr Met Pro
 20 25 30

Ser Ala Cys Thr Leu Val Met Cys Ser Ser Val Glu Ser Gly Leu Pro
 35 40 45

Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
 50 55 60

Asp Pro Gly Leu Pro Gly Ala Ala Gly Gln Ala Gly Met Pro Gly Gln
 65 70 75 80

Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Val Gly Glu Pro
 85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Ser Gly Pro Pro Gly Pro Pro Gly
 100 105 110

Val Pro Gly Pro Ala Gly Arg Glu Gly Ala Leu Gly Lys Gln Gly Asn
 115 120 125

Ile Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys
 130 135 140

Gly Glu Val Gly Ala Pro Gly Met Gln Gly Ser Ala Gly Ala Arg Gly
 145 150 155 160

Leu Ala Gly Pro Lys Gly Glu Arg Gly Val Pro Gly Glu Arg Gly Val
 165 170 175

Pro Gly Asn Thr Gly Ala Ala Gly Ser Ala Gly Ala Met Gly Pro Gln
 180 185 190

Gly Ser Pro Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Lys Gly
 195 200 205

Ile Pro Gly Asp Lys Gly Ala Lys Gly Glu Ser Gly Leu Pro Asp Val
 210 215 220

Ala Ser Leu Arg Gln Gln Val Glu Ala Leu Gln Gly Gln Val Gln His
 225 230 235 240

Leu Gln Ala Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn
 245 250 255

Gly Gln Ser Val Gly Glu Lys Ile Phe Lys Thr Ala Gly Phe Val Lys
 260 265 270

Pro Phe Thr Glu Ala Gln Leu Leu Cys Thr Gln Ala Gly Gly Gln Leu
 275 280 285

Ala Ser Pro Arg Ser Ala Ala Glu Asn Ala Ala Leu Gln Gln Leu Val
 290 295 300

Val Ala Lys Asn Glu Ala Ala Phe Leu Ser Met Thr Asp Ser Lys Thr
 305 310 315 320

Glu Gly Lys Phe Thr Tyr Pro Thr Gly Glu Ser Leu Val Tyr Ser Asn
 325 330 335

Trp Ala Pro Gly Glu Pro Asn Asp Asp Gly Gly Ser Glu Asp Cys Val
 340 345 350

Glu Ile Phe Thr Asn Gly Lys Trp Asn Asp Arg Ala Cys Gly Glu Lys
 355 360 365

Arg Leu Val Val Cys Glu Phe
 370 375

<210> 44
 <211> 247
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 44

Met Leu Leu Leu Ser Leu Ala Leu Thr Leu Ile Ser Ala Pro Ala Ser
 1 5 10 15

Asp Thr Cys Asp Thr Lys Asp Val Cys Ile Gly Ser Pro Gly Ile Pro

20

25

30

Gly Thr Pro Gly Ser His Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
 35 40 45

Val Lys Gly Asp Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Gly
 50 55 60

Met Pro Gly Leu Pro Gly Arg Asp Gly Leu Ile Gly Ala Pro Gly Val
 65 70 75 80

Pro Gly Glu Arg Gly Asp Lys Gly Glu Pro Gly Glu Arg Gly Pro Pro
 85 90 95

Gly Leu Pro Ala Tyr Leu Asp Glu Glu Leu Gln Ala Thr Leu His Glu
 100 105 110

Leu Arg His His Ala Leu Gln Ser Ile Gly Val Leu Ser Leu Gln Gly
 115 120 125

Ser Met Lys Ala Val Gly Glu Lys Ile Phe Ser Thr Asn Gly Gln Ser
 130 135 140

Val Asn Phe Asp Ala Ile Arg Glu Val Cys Ala Arg Ala Gly Gly Arg
 145 150 155 160

Ile Ala Val Pro Arg Ser Leu Glu Glu Asn Glu Ala Ile Ala Ser Ile
 165 170 175

Val Lys Glu Arg Asn Thr Tyr Ala Tyr Leu Gly Leu Ala Glu Gly Pro
 180 185 190

Thr Ala Gly Asp Phe Tyr Tyr Leu Asp Gly Asp Pro Val Asn Tyr Thr
 195 200 205

Asn Trp Tyr Pro Gly Glu Pro Arg Gly Gln Gly Arg Glu Lys Cys Val
 210 215 220

Glu Met Tyr Thr Asp Gly Lys Trp Asn Asp Lys Asn Cys Leu Gln Tyr
 225 230 235 240

Arg Leu Val Ile Cys Glu Phe
 245

<210> 45
 <211> 374
 <212> PRT
 <213> Mus musculus

<400> 45

Met Leu Pro Phe Leu Ser Met Leu Val Leu Leu Val Gln Pro Leu Gly
 1 5 10 15

Asn Leu Gly Ala Glu Met Lys Ser Leu Ser Gln Arg Ser Val Pro Asn
 20 25 30

Thr Cys Thr Leu Val Met Cys Ser Pro Thr Glu Asn Gly Leu Pro Gly
 35 40 45

Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly Asp
 50 55 60

Pro Gly Leu Pro Gly Pro Met Gly Leu Ser Gly Leu Gln Gly Pro Thr
 65 70 75 80

Gly Pro Val Gly Pro Lys Gly Glu Asn Gly Ser Ala Gly Glu Pro Gly
 85 90 95

Pro Lys Gly Glu Arg Gly Leu Ser Gly Pro Pro Gly Leu Pro Gly Ile
 100 105 110

Pro Gly Pro Ala Gly Lys Glu Gly Pro Ser Gly Lys Gln Gly Asn Ile
 115 120 125

Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys Gly
 130 135 140

Glu Val Gly Ala Pro Gly Met Gln Gly Ser Thr Gly Ala Lys Gly Ser
 145 150 155 160

Thr Gly Pro Lys Gly Glu Arg Gly Ala Pro Gly Val Gln Gly Ala Pro
 165 170 175

Gly Asn Ala Gly Ala Ala Gly Pro Ala Gly Pro Ala Gly Pro Gln Gly
 180 185 190

Ala Pro Gly Ser Arg Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Val
 195 200 205

Pro Gly Asp Arg Gly Ile Lys Gly Glu Ser Gly Leu Pro Asp Ser Ala
 210 215 220

Ala Leu Arg Gln Gln Met Glu Ala Leu Lys Gly Lys Leu Gln Arg Leu
 225 230 235 240

Glu Val Ala Phe Ser His Tyr Gln Lys Ala Ala Leu Phe Pro Asp Gly
 245 250 255

Arg Ser Val Gly Asp Lys Ile Phe Arg Thr Ala Asp Ser Glu Lys Pro
 260 265 270

Phe Glu Asp Ala Gln Glu Met Cys Lys Gln Ala Gly Gly Gln Leu Ala
 275 280 285

Ser Pro Arg Ser Ala Thr Glu Asn Ala Ala Ile Gln Gln Leu Ile Thr
 290 295 300

Ala His Asn Lys Ala Ala Phe Leu Ser Met Thr Asp Val Gly Thr Glu
 305 310 315 320

Gly Lys Phe Thr Tyr Pro Thr Gly Glu Pro Leu Val Tyr Ser Asn Trp
 325 330 335

Ala Pro Gly Glu Pro Asn Asn Asn Gly Gly Ala Glu Asn Cys Val Glu
 340 345 350

Ile Phe Thr Asn Gly Gln Trp Asn Asp Lys Ala Cys Gly Glu Gln Arg
 355 360 365

Leu Val Ile Cys Glu Phe
 370

<210> 46
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 46

Glu Ala Glu Ala Gly Ser Val Ala Ser Leu Arg Gln Gln Val Glu Ala
 1 5 10 15

Leu Gln Gly Gln Val Gln His Leu Gln Ala Ala Phe Ser Gln Tyr Lys

20

25

30

Lys Val Glu Leu Phe Pro Asn Gly Gln Ser Val Gly Glu Lys Ile Phe
35 40 45

Lys Thr Ala Gly Phe Val Lys Pro Phe Thr Glu Ala Gln Leu Leu Cys
50 55 60

Thr Gln Ala Gly Gly Gln Leu Ala Ser Pro Arg Ser Ala Ala Glu Asn
65 70 75 80

Ala Ala Leu Gln Gln Leu Val Val Ala Lys Asn Glu Ala Ala Phe Leu
85 90 95

Ser Met Thr Asp Ser Lys Thr Glu Gly Lys Phe Thr Tyr Pro Thr Gly
100 105 110

Glu Ser Leu Val Tyr Ser Asn Trp Ala Pro Gly Glu Pro Asn Asp Asp
115 120 125

Gly Gly Ser Glu Asp Cys Val Glu Ile Phe Thr Asn Gly Lys Trp Asn
130 135 140

Asp Arg Ala Cys Gly Glu Lys Arg Leu Val Val Cys Glu Phe
145 150 155

<210> 47

<211> 158

<212> PRT

<213> Homo sapiens

<400> 47

Glu Ala Glu Ala Gly Ser Val Ala Ser Leu Arg Gln Gln Val Glu Ala
1 5 10 15

Leu Gln Gly Gln Val Gln His Leu Gln Ala Ala Phe Ser Gln Tyr Lys
20 25 30

Lys Val Glu Leu Phe Pro Asn Gly Gln Ser Val Gly Glu Lys Ile Phe
35 40 45

Lys Thr Ala Gly Phe Val Lys Pro Phe Thr Glu Ala Gln Leu Leu Cys
50 55 60

Thr Gln Ala Gly Gly Gln Leu Ala Ser Pro Arg Ser Ala Ala Glu Asn
65 70 75 80

Ala Ala Leu Gln Gln Leu Val Val Ala Lys Asn Glu Ala Ala Phe Leu
85 90 95

Ser Met Thr Asp Ser Lys Thr Glu Gly Lys Phe Thr Tyr Pro Thr Gly
100 105 110

Glu Ser Leu Val Tyr Ser Asn Trp Ala Pro Gly Glu Pro Asn Asp Asp
115 120 125

Gly Gly Ser Glu Asp Cys Val Glu Ile Phe Thr Asn Gly Lys Trp Asn
130 135 140

Asp Arg Ala Cys Gly Glu Lys Arg Leu Val Val Cys Glu Phe
145 150 155

<210> 48
<211> 158
<212> PRT
<213> Homo sapiens

<400> 48

Glu Ala Glu Ala Gly Ser Val Ala Ser Leu Arg Gln Gln Val Glu Ala
1 5 10 15

Leu Gln Gly Gln Val Gln His Leu Gln Ala Ala Phe Ser Gln Tyr Lys
20 25 30

Lys Val Glu Leu Phe Pro Asn Gly Gln Ser Val Gly Glu Lys Ile Phe
35 40 45

Lys Thr Ala Gly Phe Val Lys Pro Phe Thr Glu Ala Gln Leu Leu Cys
50 55 60

Thr Gln Ala Gly Gly Gln Leu Ala Ser Pro Arg Ser Ala Ala Glu Asn
65 70 75 80

Ala Ala Leu Gln Gln Leu Val Val Ala Lys Asn Glu Ala Ala Phe Leu
85 90 95

Ser Met Thr Asp Ser Lys Thr Glu Gly Lys Phe Thr Tyr Pro Thr Gly
100 105 110

Glu Ser Leu Val Tyr Ser Asn Trp Ala Pro Gly Glu Pro Asn Asp Asp
 115 120 125

Gly Gly Ser Glu Asp Cys Val Glu Ile Phe Thr Asn Gly Lys Trp Asn
 130 135 140

Asp Arg Ala Cys Gly Glu Lys Arg Leu Val Val Cys Glu Phe
 145 150 155

<210> 49
 <211> 2403
 <212> PRT
 <213> Homo sapiens

<400> 49

Met Gly Ile Ser Thr Val Ile Leu Glu Met Cys Leu Leu Trp Gly Gln
 1 5 10 15

Val Leu Ser Thr Gly Gly Trp Ile Pro Arg Thr Thr Asp Tyr Ala Ser
 20 25 30

Leu Ile Pro Ser Glu Val Pro Leu Asp Thr Thr Val Ala Glu Gly Ser
 35 40 45

Pro Phe Pro Ser Glu Leu Thr Leu Glu Ser Thr Ala Ala Glu Gly Ser
 50 55 60

Pro Ile Ser Leu Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
 65 70 75 80

Leu Ile Pro Ser Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
 85 90 95

Asp Ser Gly Leu Ala Leu Arg Leu Val Asn Gly Asp Gly Arg Cys Gln
 100 105 110

Gly Arg Val Glu Ile Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp
 115 120 125

Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly
 130 135 140

Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Trp Phe Gly Gln Gly
 145 150 155 160

Ser Gly Pro Ile Ala Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser
 165 170 175

Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
 180 185 190

His Gly Glu Asp Ala Gly Val Ile Cys Ser Ala Ala Gln Pro Gln Ser
 195 200 205

Thr Leu Arg Pro Glu Ser Trp Pro Val Arg Ile Ser Pro Pro Val Pro
 210 215 220

Thr Glu Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 225 230 235 240

Asp Arg Cys Arg Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
 245 250 255

Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys
 260 265 270

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln
 275 280 285

Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
 290 295 300

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Thr
 305 310 315 320

His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Pro
 325 330 335

Leu Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala
 340 345 350

Ser Thr Ala Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly
 355 360 365

Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp
 370 375 380

Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala Asn Val Val
 385 390 395 400

Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro Gly Asn Ala
 405 410 415

Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys
 420 425 430

Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu
 435 440 445

Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile Cys Ser Asp
 450 455 460

Thr Leu Pro Thr Ile Thr Leu Pro Ala Ser Thr Val Gly Ser Glu Ser
 465 470 475 480

Ser Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg
 485 490 495

Val Glu Val Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp Ser
 500 505 510

Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly
 515 520 525

Trp Ala Met Leu Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly
 530 535 540

Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly Asn Glu Ser Tyr Leu
 545 550 555 560

Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly His Ser
 565 570 575

Glu Asp Ala Gly Val Ile Cys Ser Gly Pro Glu Ser Ser Leu Ala Leu
 580 585 590

Gly Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu
 595 600 605

Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn
 610 615 620

Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser
625 630 635 640

Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu
645 650 655

Asp Asp Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro
660 665 670

Asn Asn Gly Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly
675 680 685

Val Ile Cys Ser Ala Ala Gln Ser Arg Ser Thr Pro Arg Pro Asp Thr
690 695 700

Leu Ser Thr Ile Thr Leu Pro Pro Ser Thr Val Gly Ser Glu Ser Ser
705 710 715 720

Leu Thr Leu Arg Leu Val Asn Gly Ser Asp Arg Cys Gln Gly Arg Val
725 730 735

Glu Val Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp
740 745 750

Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp
755 760 765

Ala Thr Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro
770 775 780

Ile Val Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp
785 790 795 800

Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly His His Glu
805 810 815

Asp Ala Gly Val Ile Cys Ser Val Ser Gln Ser Arg Pro Thr Pro Ser
820 825 830

Pro Asp Thr Trp Pro Thr Ser His Ala Ser Thr Ala Gly Ser Glu Ser
835 840 845

Ser Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg
 850 855 860

Val Glu Val Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp Ser
 865 870 875 880

Trp Asp Thr Ser Asp Ala Asn Val Val Cys Arg Arg Leu Gly Cys Gly
 885 890 895

Trp Ala Thr Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly
 900 905 910

Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly Tyr Glu Ser Tyr Leu
 915 920 925

Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gln His Ser
 930 935 940

Glu Asp Ala Gly Val Ile Cys Ser Ala Ala His Ser Trp Ser Thr Pro
 945 950 955 960

Ser Pro Asp Thr Leu Pro Thr Ile Thr Leu Pro Ala Ser Thr Val Gly
 965 970 975

Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys
 980 985 990

Gln Gly Arg Val Glu Val Leu Tyr Gln Gly Ser Trp Gly Thr Val Cys
 995 1000 1005

Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln
 1010 1015 1020

Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Arg Phe
 1025 1030 1035

Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
 1040 1045 1050

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu
 1055 1060 1065

Ser His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile Cys Ser
 1070 1075 1080

Ala	Ser	Gln	Ser	Arg	Pro	Thr	Pro	Ser	Pro	Asp	Thr	Trp	Pro	Thr
1085						1090					1095			
Ser	His	Ala	Ser	Thr	Ala	Gly	Ser	Glu	Ser	Ser	Leu	Ala	Leu	Arg
1100						1105					1110			
Leu	Val	Asn	Gly	Gly	Asp	Arg	Cys	Gln	Gly	Arg	Val	Glu	Val	Leu
1115						1120					1125			
Tyr	Arg	Gly	Ser	Trp	Gly	Thr	Val	Cys	Asp	Asp	Tyr	Trp	Asp	Thr
1130						1135					1140			
Asn	Asp	Ala	Asn	Val	Val	Cys	Arg	Gln	Leu	Gly	Cys	Gly	Trp	Ala
1145						1150					1155			
Met	Ser	Ala	Pro	Gly	Asn	Ala	Arg	Phe	Gly	Gln	Gly	Ser	Gly	Pro
1160						1165					1170			
Ile	Val	Leu	Asp	Asp	Val	Arg	Cys	Ser	Gly	His	Glu	Ser	Tyr	Leu
1175						1180					1185			
Trp	Ser	Cys	Pro	His	Asp	Gly	Trp	Leu	Ser	His	Asn	Cys	Gly	His
1190						1195					1200			
His	Glu	Asp	Ala	Gly	Val	Ile	Cys	Ser	Ala	Ser	Gln	Ser	Gln	Pro
1205						1210					1215			
Thr	Pro	Ser	Pro	Asp	Thr	Trp	Pro	Thr	Ser	His	Ala	Ser	Thr	Ala
1220						1225					1230			
Gly	Ser	Glu	Ser	Ser	Leu	Ala	Leu	Arg	Leu	Val	Asn	Gly	Gly	Asp
1235						1240					1245			
Arg	Cys	Gln	Gly	Arg	Val	Glu	Val	Leu	Tyr	Arg	Gly	Pro	Trp	Gly
1250						1255					1260			
Thr	Val	Cys	Asp	Asp	Tyr	Trp	Asp	Thr	Asn	Asp	Ala	Asn	Val	Val
1265						1270					1275			
Cys	Arg	Gln	Leu	Gly	Cys	Gly	Trp	Ala	Thr	Ser	Ala	Pro	Gly	Asn
1280						1285					1290			

Ala Arg	Phe Gly Gln Gly Ser	Gly Pro Ile Val Leu	Asp Asp Val
1295	1300	1305	
Arg Cys	Ser Gly His Glu Ser	Tyr Leu Trp Ser Cys	Pro His Asn
1310	1315	1320	
Gly Trp	Leu Ser His Asn Cys	Gly His His Glu Asp	Ala Gly Val
1325	1330	1335	
Ile Cys	Ser Ala Ser Gln Ser	Gln Pro Thr Pro Ser	Pro Asp Thr
1340	1345	1350	
Trp Pro	Thr Ser His Ala Ser	Thr Ala Gly Ser Glu	Ser Ser Leu
1355	1360	1365	
Ala Leu	Arg Leu Val Asn Gly	Gly Asp Arg Cys Gln	Gly Arg Val
1370	1375	1380	
Glu Val	Leu Tyr Arg Gly Ser	Trp Gly Thr Val Cys	Asp Asp Tyr
1385	1390	1395	
Trp Asp	Thr Asn Asp Ala Asn	Val Val Cys Arg Gln	Leu Gly Cys
1400	1405	1410	
Gly Trp	Ala Thr Ser Ala Pro	Gly Ser Ala Arg Phe	Gly Gln Gly
1415	1420	1425	
Ser Gly	Pro Ile Ala Leu Asp	Asp Val Arg Cys Ser	Gly His Glu
1430	1435	1440	
Ser Tyr	Leu Trp Ser Cys Pro	His Asn Gly Trp Leu	Ser His Asn
1445	1450	1455	
Cys Gly	His His Glu Asp Ala	Gly Val Ile Cys Ser	Ala Ser Gln
1460	1465	1470	
Ser Gln	Pro Thr Pro Ser Pro	Asp Thr Trp Pro Thr	Ser Arg Ala
1475	1480	1485	
Ser Thr	Ala Gly Ser Glu Ser	Thr Leu Ala Leu Arg	Leu Val Asn
1490	1495	1500	
Gly Gly	Asp Arg Cys Arg Gly	Arg Val Glu Val Leu	Tyr Gln Gly
1505	1510	1515	

Ser	Trp	Gly	Thr	Val	Cys	Asp	Asp	Tyr	Trp	Asp	Thr	Asn	Asp	Ala
1520						1525					1530			
Asn	Val	Val	Cys	Arg	Gln	Leu	Gly	Cys	Gly	Trp	Ala	Met	Ser	Ala
1535						1540					1545			
Pro	Gly	Asn	Ala	Gln	Phe	Gly	Gln	Gly	Ser	Gly	Pro	Ile	Val	Leu
1550						1555					1560			
Asp	Asp	Val	Arg	Cys	Ser	Gly	His	Glu	Ser	Tyr	Leu	Trp	Ser	Cys
1565						1570					1575			
Pro	His	Asn	Gly	Trp	Leu	Ser	His	Asn	Cys	Gly	His	His	Glu	Asp
1580						1585					1590			
Ala	Gly	Val	Ile	Cys	Ser	Ala	Ala	Gln	Ser	Gln	Ser	Thr	Pro	Arg
1595						1600					1605			
Pro	Asp	Thr	Trp	Leu	Thr	Thr	Asn	Leu	Pro	Ala	Leu	Thr	Val	Gly
1610						1615					1620			
Ser	Glu	Ser	Ser	Leu	Ala	Leu	Arg	Leu	Val	Asn	Gly	Gly	Asp	Arg
1625						1630					1635			
Cys	Arg	Gly	Arg	Val	Glu	Val	Leu	Tyr	Arg	Gly	Ser	Trp	Gly	Thr
1640						1645					1650			
Val	Cys	Asp	Asp	Ser	Trp	Asp	Thr	Asn	Asp	Ala	Asn	Val	Val	Cys
1655						1660					1665			
Arg	Gln	Leu	Gly	Cys	Gly	Trp	Ala	Met	Ser	Ala	Pro	Gly	Asn	Ala
1670						1675					1680			
Arg	Phe	Gly	Gln	Gly	Ser	Gly	Pro	Ile	Val	Leu	Asp	Asp	Val	Arg
1685						1690					1695			
Cys	Ser	Gly	Asn	Glu	Ser	Tyr	Leu	Trp	Ser	Cys	Pro	His	Lys	Gly
1700						1705					1710			
Trp	Leu	Thr	His	Asn	Cys	Gly	His	His	Glu	Asp	Ala	Gly	Val	Ile
1715						1720					1725			

Cys	Ser	Ala	Thr	Gln	Ile	Asn	Ser	Thr	Thr	Thr	Asp	Trp	Trp	His
1730						1735					1740			
Pro	Thr	Thr	Thr	Thr	Thr	Ala	Arg	Pro	Ser	Ser	Asn	Cys	Gly	Gly
1745						1750					1755			
Phe	Leu	Phe	Tyr	Ala	Ser	Gly	Thr	Phe	Ser	Ser	Pro	Ser	Tyr	Pro
1760						1765					1770			
Ala	Tyr	Tyr	Pro	Asn	Asn	Ala	Lys	Cys	Val	Trp	Glu	Ile	Glu	Val
1775						1780					1785			
Asn	Ser	Gly	Tyr	Arg	Ile	Asn	Leu	Gly	Phe	Ser	Asn	Leu	Lys	Leu
1790						1795					1800			
Glu	Ala	His	His	Asn	Cys	Ser	Phe	Asp	Tyr	Val	Glu	Ile	Phe	Asp
1805						1810					1815			
Gly	Ser	Leu	Asn	Ser	Ser	Leu	Leu	Leu	Gly	Lys	Ile	Cys	Asn	Asp
1820						1825					1830			
Thr	Arg	Gln	Ile	Phe	Thr	Ser	Ser	Tyr	Asn	Arg	Met	Thr	Ile	His
1835						1840					1845			
Phe	Arg	Ser	Asp	Ile	Ser	Phe	Gln	Asn	Thr	Gly	Phe	Leu	Ala	Trp
1850						1855					1860			
Tyr	Asn	Ser	Phe	Pro	Ser	Asp	Ala	Thr	Leu	Arg	Leu	Val	Asn	Leu
1865						1870					1875			
Asn	Ser	Ser	Tyr	Gly	Leu	Cys	Ala	Gly	Arg	Val	Glu	Ile	Tyr	His
1880						1885					1890			
Gly	Gly	Thr	Trp	Gly	Thr	Val	Cys	Asp	Asp	Ser	Trp	Thr	Ile	Gln
1895						1900					1905			
Glu	Ala	Glu	Val	Val	Cys	Arg	Gln	Leu	Gly	Cys	Gly	Arg	Ala	Val
1910						1915					1920			
Ser	Ala	Leu	Gly	Asn	Ala	Tyr	Phe	Gly	Ser	Gly	Ser	Gly	Pro	Ile
1925						1930					1935			
Thr	Leu	Asp	Asp	Val	Glu	Cys	Ser	Gly	Thr	Glu	Ser	Thr	Leu	Trp
1940						1945					1950			

Gln Cys	Arg Asn Arg Gly Trp	Phe Ser His Asn Cys	Asn His Arg
1955	1960	1965	
Glu Asp	Ala Gly Val Ile Cys	Ser Gly Asn His Leu	Ser Thr Pro
1970	1975	1980	
Ala Pro	Phe Leu Asn Ile Thr	Arg Pro Asn Thr Asp	Tyr Ser Cys
1985	1990	1995	
Gly Gly	Phe Leu Ser Gln Pro	Ser Gly Asp Phe Ser	Ser Pro Phe
2000	2005	2010	
Tyr Pro	Gly Asn Tyr Pro Asn	Asn Ala Lys Cys Val	Trp Asp Ile
2015	2020	2025	
Glu Val	Gln Asn Asn Tyr Arg	Val Thr Val Ile Phe	Arg Asp Val
2030	2035	2040	
Gln Leu	Glu Gly Gly Cys Asn	Tyr Asp Tyr Ile Glu	Val Phe Asp
2045	2050	2055	
Gly Pro	Tyr Arg Ser Ser Pro	Leu Ile Ala Arg Val	Cys Asp Gly
2060	2065	2070	
Ala Arg	Gly Ser Phe Thr Ser	Ser Ser Asn Phe Met	Ser Ile Arg
2075	2080	2085	
Phe Ile	Ser Asp His Ser Ile	Thr Arg Arg Gly Phe	Arg Ala Glu
2090	2095	2100	
Tyr Tyr	Ser Ser Pro Ser Asn	Asp Ser Thr Asn Leu	Leu Cys Leu
2105	2110	2115	
Pro Asn	His Met Gln Ala Ser	Val Ser Arg Ser Tyr	Leu Gln Ser
2120	2125	2130	
Leu Gly	Phe Ser Ala Ser Asp	Leu Val Ile Ser Thr	Trp Asn Gly
2135	2140	2145	
Tyr Tyr	Glu Cys Arg Pro Gln	Ile Thr Pro Asn Leu	Val Ile Phe
2150	2155	2160	

Thr	Ile	Pro	Tyr	Ser	Gly	Cys	Gly	Thr	Phe	Lys	Gln	Ala	Asp	Asn
2165						2170					2175			
Asp	Thr	Ile	Asp	Tyr	Ser	Asn	Phe	Leu	Thr	Ala	Ala	Val	Ser	Gly
2180						2185					2190			
Gly	Ile	Ile	Lys	Arg	Arg	Thr	Asp	Leu	Arg	Ile	His	Val	Ser	Cys
2195						2200					2205			
Arg	Met	Leu	Gln	Asn	Thr	Trp	Val	Asp	Thr	Met	Tyr	Ile	Ala	Asn
2210						2215					2220			
Asp	Thr	Ile	His	Val	Ala	Asn	Asn	Thr	Ile	Gln	Val	Glu	Glu	Val
2225						2230					2235			
Gln	Tyr	Gly	Asn	Phe	Asp	Val	Asn	Ile	Ser	Phe	Tyr	Thr	Ser	Ser
2240						2245					2250			
Ser	Phe	Leu	Tyr	Pro	Val	Thr	Ser	Arg	Pro	Tyr	Tyr	Val	Asp	Leu
2255						2260					2265			
Asn	Gln	Asp	Leu	Tyr	Val	Gln	Ala	Glu	Ile	Leu	His	Ser	Asp	Ala
2270						2275					2280			
Val	Leu	Thr	Leu	Phe	Val	Asp	Thr	Cys	Val	Ala	Ser	Pro	Tyr	Ser
2285						2290					2295			
Asn	Asp	Phe	Thr	Ser	Leu	Thr	Tyr	Asp	Leu	Ile	Arg	Ser	Gly	Cys
2300						2305					2310			
Val	Arg	Asp	Asp	Thr	Tyr	Gly	Pro	Tyr	Ser	Ser	Pro	Ser	Leu	Arg
2315						2320					2325			
Ile	Ala	Arg	Phe	Arg	Phe	Arg	Ala	Phe	His	Phe	Leu	Asn	Arg	Phe
2330						2335					2340			
Pro	Ser	Val	Tyr	Leu	Arg	Cys	Lys	Met	Val	Val	Cys	Arg	Ala	Tyr
2345						2350					2355			
Asp	Pro	Ser	Ser	Arg	Cys	Tyr	Arg	Gly	Cys	Val	Leu	Arg	Ser	Lys
2360						2365					2370			
Arg	Asp	Val	Gly	Ser	Tyr	Gln	Glu	Lys	Val	Asp	Val	Val	Leu	Gly
2375						2380					2385			

Pro Ile Gln Leu Gln Thr Pro Pro Arg Arg Glu Glu Glu Pro Arg
 2390 2395 2400

<210> 50
 <211> 2413
 <212> PRT
 <213> Homo sapiens

<400> 50

Met Gly Ile Ser Thr Val Ile Leu Glu Met Cys Leu Leu Trp Gly Gln
 1 5 10 15

Val Leu Ser Thr Gly Gly Trp Ile Pro Arg Thr Thr Asp Tyr Ala Ser
 20 25 30

Leu Ile Pro Ser Glu Val Pro Leu Asp Gln Thr Val Ala Glu Gly Ser
 35 40 45

Pro Phe Pro Ser Glu Ser Thr Leu Glu Ser Thr Ala Ala Glu Gly Ser
 50 55 60

Pro Ile Ser Leu Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
 65 70 75 80

Leu Ile Pro Ser Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
 85 90 95

Asp Ser Gly Leu Ala Leu Arg Leu Val Asn Gly Asp Gly Arg Cys Gln
 100 105 110

Gly Arg Val Glu Ile Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp
 115 120 125

Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly
 130 135 140

Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Trp Phe Gly Gln Gly
 145 150 155 160

Ser Gly Pro Ile Ala Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser
 165 170 175

Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly

180

185

190

His Gly Glu Asp Ala Gly Val Ile Cys Ser Ala Ala Gln Pro Gln Ser
 195 200 205

Thr Leu Arg Pro Glu Ser Trp Pro Val Arg Ile Ser Pro Pro Val Pro
 210 215 220

Thr Glu Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 225 230 235 240

Asp Arg Cys Arg Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
 245 250 255

Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys
 260 265 270

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln
 275 280 285

Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
 290 295 300

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Thr
 305 310 315 320

His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Pro
 325 330 335

Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala
 340 345 350

Ser Thr Ala Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly
 355 360 365

Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp
 370 375 380

Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala Asn Val Val
 385 390 395 400

Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro Gly Asn Ala
 405 410 415

Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys
420 425 430

Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu
435 440 445

Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala
450 455 460

Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro Thr Ile Thr
465 470 475 480

Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu
485 490 495

Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg
500 505 510

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala
515 520 525

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Leu Ala Pro
530 535 540

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
545 550 555 560

Val Arg Cys Ser Gly Asn Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
565 570 575

Gly Trp Leu Ser His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile
580 585 590

Cys Ser Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
595 600 605

Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
610 615 620

Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys
625 630 635 640

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Arg

645	650	655
Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser		
660	665	670
Gly His Glu Ser Tyr Leu Trp Ser Cys Pro Asn Asn Gly Trp Leu Ser		
675	680	685
His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ala		
690	695	700
Gln Ser Arg Ser Thr Pro Arg Pro Asp Thr Leu Ser Thr Ile Thr Leu		
705	710	715
Pro Pro Ser Thr Val Gly Ser Glu Ser Ser Leu Thr Leu Arg Leu Val		
725	730	735
Asn Gly Ser Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly		
740	745	750
Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn		
755	760	765
Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly		
770	775	780
Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val		
785	790	795
Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly		
805	810	815
Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys		
820	825	830
Ser Val Ser Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr		
835	840	845
Ser His Ala Ser Thr Ala Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu		
850	855	860
Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg		
865	870	875
		880

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala
 885 890 895

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro
 900 905 910

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
 915 920 925

Val Arg Cys Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
 930 935 940

Gly Trp Leu Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile
 945 950 955 960

Cys Ser Ala Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro
 965 970 975

Thr Ile Thr Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala
 980 985 990

Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val
 995 1000 1005

Leu Tyr Gln Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp
 1010 1015 1020

Thr Asn Asp Ala Asn Val Val Cys Arg Gln Pro Gly Cys Gly Trp
 1025 1030 1035

Ala Met Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly
 1040 1045 1050

Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser Tyr
 1055 1060 1065

Pro Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
 1070 1075 1080

His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Ser Gln Ser Arg
 1085 1090 1095

Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala Ser Thr

1100		1105		1110
Ala Gly Ser Glu Ser Ser Leu	Ala Leu Arg Leu Val	Asn Gly Gly		
1115	1120	1125		
Asp Arg Cys Gln Gly Arg Val	Glu Val Leu Tyr Arg	Gly Ser Trp		
1130	1135	1140		
Gly Thr Val Cys Asp Asp Tyr	Trp Asp Thr Asn Asp	Ala Asn Val		
1145	1150	1155		
Val Cys Arg Gln Leu Gly Cys	Gly Trp Ala Met Ser	Ala Pro Gly		
1160	1165	1170		
Asn Ala Arg Phe Gly Gln Gly	Ser Gly Pro Ile Val	Leu Asp Asp		
1175	1180	1185		
Val Arg Cys Ser Gly His Glu	Ser Tyr Leu Trp Ser	Cys Pro His		
1190	1195	1200		
Asn Gly Trp Leu Ser His Asn	Cys Gly His His Glu	Asp Ala Gly		
1205	1210	1215		
Val Ile Cys Ser Ala Ser Gln	Ser Gln Pro Thr Pro	Ser Pro Asp		
1220	1225	1230		
Thr Trp Pro Thr Ser His Ala	Ser Thr Ala Gly Ser	Glu Ser Ser		
1235	1240	1245		
Leu Ala Leu Arg Leu Val Asn	Gly Gly Asp Arg Cys	Gln Gly Arg		
1250	1255	1260		
Val Glu Val Leu Tyr Arg Gly	Ser Trp Gly Thr Val	Cys Asp Asp		
1265	1270	1275		
Tyr Trp Asp Thr Asn Asp Ala	Asn Val Val Cys Arg	Gln Leu Gly		
1280	1285	1290		
Cys Gly Trp Ala Thr Ser Ala	Pro Gly Asn Ala Arg	Phe Gly Gln		
1295	1300	1305		
Gly Ser Gly Pro Ile Val Leu	Asp Asp Val Arg Cys	Ser Gly His		
1310	1315	1320		

Glu	Ser	Tyr	Leu	Trp	Ser	Cys	Pro	His	Asn	Gly	Trp	Leu	Ser	His
1325						1330					1335			
Asn	Cys	Gly	His	His	Glu	Asp	Ala	Gly	Val	Ile	Cys	Ser	Ala	Ser
1340						1345					1350			
Gln	Ser	Gln	Pro	Thr	Pro	Ser	Pro	Asp	Thr	Trp	Pro	Thr	Ser	His
1355						1360					1365			
Ala	Ser	Thr	Ala	Gly	Ser	Glu	Ser	Ser	Leu	Ala	Leu	Arg	Leu	Val
1370						1375					1380			
Asn	Gly	Gly	Asp	Arg	Cys	Gln	Gly	Arg	Val	Glu	Val	Leu	Tyr	Arg
1385						1390					1395			
Gly	Ser	Trp	Gly	Thr	Val	Cys	Asp	Asp	Tyr	Trp	Asp	Thr	Asn	Asp
1400						1405					1410			
Ala	Asn	Val	Val	Cys	Arg	Gln	Leu	Gly	Cys	Gly	Trp	Ala	Thr	Ser
1415						1420					1425			
Ala	Pro	Gly	Asn	Ala	Arg	Phe	Gly	Gln	Gly	Ser	Gly	Pro	Ile	Val
1430						1435					1440			
Leu	Asp	Asp	Val	Arg	Cys	Ser	Gly	His	Glu	Ser	Tyr	Leu	Trp	Ser
1445						1450					1455			
Cys	Pro	His	Asn	Gly	Trp	Leu	Ser	His	Asn	Cys	Gly	His	His	Glu
1460						1465					1470			
Asp	Ala	Gly	Val	Ile	Cys	Ser	Ala	Ser	Gln	Ser	Gln	Pro	Thr	Pro
1475						1480					1485			
Ser	Pro	Asp	Thr	Trp	Pro	Thr	Ser	Arg	Ala	Ser	Thr	Ala	Gly	Ser
1490						1495					1500			
Glu	Ser	Thr	Leu	Ala	Leu	Arg	Leu	Val	Asn	Gly	Gly	Asp	Arg	Cys
1505						1510					1515			
Arg	Gly	Arg	Val	Glu	Val	Leu	Tyr	Gln	Gly	Ser	Trp	Gly	Thr	Val
1520						1525					1530			
Cys	Asp	Asp	Tyr	Trp	Asp	Thr	Asn	Asp	Ala	Asn	Val	Val	Cys	Arg

1535		1540		1545
Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln				
1550		1555		1560
Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys				
1565		1570		1575
Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp				
1580		1585		1590
Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys				
1595		1600		1605
Ser Ala Ala Gln Ser Gln Ser Thr Pro Arg Pro Asp Thr Trp Leu				
1610		1615		1620
Thr Thr Asn Leu Pro Ala Leu Thr Val Gly Ser Glu Ser Ser Leu				
1625		1630		1635
Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Arg Gly Arg Val				
1640		1645		1650
Glu Val Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp Ser				
1655		1660		1665
Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys				
1670		1675		1680
Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly				
1685		1690		1695
Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly Asn Glu				
1700		1705		1710
Ser Tyr Leu Trp Ser Cys Pro His Lys Gly Trp Leu Thr His Asn				
1715		1720		1725
Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Thr Gln				
1730		1735		1740
Ile Asn Ser Thr Thr Thr Asp Trp Trp His Pro Thr Thr Thr Thr				
1745		1750		1755

Thr	Ala	Arg	Pro	Ser	Ser	Asn	Cys	Gly	Gly	Phe	Leu	Phe	Tyr	Ala
1760						1765					1770			
Ser	Gly	Thr	Phe	Ser	Ser	Pro	Ser	Tyr	Pro	Ala	Tyr	Tyr	Pro	Asn
1775						1780					1785			
Asn	Ala	Lys	Cys	Val	Trp	Glu	Ile	Glu	Val	Asn	Ser	Gly	Tyr	Arg
1790						1795					1800			
Ile	Asn	Leu	Gly	Phe	Ser	Asn	Leu	Lys	Leu	Glu	Ala	His	His	Asn
1805						1810					1815			
Cys	Ser	Phe	Asp	Tyr	Val	Glu	Ile	Phe	Asp	Gly	Ser	Leu	Asn	Ser
1820						1825					1830			
Ser	Leu	Leu	Leu	Gly	Lys	Ile	Cys	Asn	Asp	Thr	Arg	Gln	Ile	Phe
1835						1840					1845			
Thr	Ser	Ser	Tyr	Asn	Arg	Met	Thr	Ile	His	Phe	Arg	Ser	Asp	Ile
1850						1855					1860			
Ser	Phe	Gln	Asn	Thr	Gly	Phe	Leu	Ala	Trp	Tyr	Asn	Ser	Phe	Pro
1865						1870					1875			
Ser	Asp	Ala	Thr	Leu	Arg	Leu	Val	Asn	Leu	Asn	Ser	Ser	Tyr	Gly
1880						1885					1890			
Leu	Cys	Ala	Gly	Arg	Val	Glu	Ile	Tyr	His	Gly	Gly	Thr	Trp	Gly
1895						1900					1905			
Thr	Val	Cys	Asp	Asp	Ser	Trp	Thr	Ile	Gln	Glu	Ala	Glu	Val	Val
1910						1915					1920			
Cys	Arg	Gln	Leu	Gly	Cys	Gly	Arg	Ala	Val	Ser	Ala	Leu	Gly	Asn
1925						1930					1935			
Ala	Tyr	Phe	Gly	Ser	Gly	Ser	Gly	Pro	Ile	Thr	Leu	Asp	Asp	Val
1940						1945					1950			
Glu	Cys	Ser	Gly	Thr	Glu	Ser	Thr	Leu	Trp	Gln	Cys	Arg	Asn	Arg
1955						1960					1965			
Gly	Trp	Phe	Ser	His	Asn	Cys	Asn	His	Arg	Glu	Asp	Ala	Gly	Val

1970	1975	1980
Ile Cys Ser Gly Asn His Leu Ser Thr Pro Ala Pro Phe Leu Asn 1985 1990 1995		
Ile Thr Arg Pro Asn Thr Asp Tyr Ser Cys Gly Gly Phe Leu Ser 2000 2005 2010		
Gln Pro Ser Gly Asp Phe Ser Ser Pro Phe Tyr Pro Gly Asn Tyr 2015 2020 2025		
Pro Asn Asn Ala Lys Cys Val Trp Asp Ile Glu Val Gln Asn Asn 2030 2035 2040		
Tyr Arg Val Thr Val Ile Phe Arg Asp Val Gln Leu Glu Gly Gly 2045 2050 2055		
Cys Asn Tyr Asp Tyr Ile Glu Val Phe Asp Gly Pro Tyr Arg Ser 2060 2065 2070		
Ser Pro Leu Ile Ala Arg Val Cys Asp Gly Ala Arg Gly Ser Phe 2075 2080 2085		
Thr Ser Ser Ser Asn Phe Met Ser Ile Arg Phe Ile Ser Asp His 2090 2095 2100		
Ser Ile Thr Arg Arg Gly Phe Arg Ala Glu Tyr Tyr Ser Ser Pro 2105 2110 2115		
Ser Asn Asp Ser Thr Asn Leu Leu Cys Leu Pro Asn His Met Gln 2120 2125 2130		
Ala Ser Val Ser Arg Ser Tyr Leu Gln Ser Leu Gly Phe Ser Ala 2135 2140 2145		
Ser Asp Leu Val Ile Ser Thr Trp Asn Gly Tyr Tyr Glu Cys Arg 2150 2155 2160		
Pro Gln Ile Thr Pro Asn Leu Val Ile Phe Thr Ile Pro Tyr Ser 2165 2170 2175		
Gly Cys Gly Thr Phe Lys Gln Ala Asp Asn Asp Thr Ile Asp Tyr 2180 2185 2190		

Ser	Asn	Phe	Leu	Thr	Ala	Ala	Val	Ser	Gly	Gly	Ile	Ile	Lys	Arg
2195						2200					2205			
Arg	Thr	Asp	Leu	Arg	Ile	His	Val	Ser	Cys	Arg	Met	Leu	Gln	Asn
2210						2215					2220			
Thr	Trp	Val	Asp	Thr	Met	Tyr	Ile	Ala	Asn	Asp	Thr	Ile	His	Val
2225						2230					2235			
Ala	Asn	Asn	Thr	Ile	Gln	Val	Glu	Glu	Val	Gln	Tyr	Gly	Asn	Phe
2240						2245					2250			
Asp	Val	Asn	Ile	Ser	Phe	Tyr	Thr	Ser	Ser	Ser	Phe	Leu	Tyr	Pro
2255						2260					2265			
Val	Thr	Ser	Arg	Pro	Tyr	Tyr	Val	Asp	Leu	Asn	Gln	Asp	Leu	Tyr
2270						2275					2280			
Val	Gln	Ala	Glu	Ile	Leu	His	Ser	Asp	Ala	Val	Leu	Thr	Leu	Phe
2285						2290					2295			
Val	Asp	Thr	Cys	Val	Ala	Ser	Pro	Tyr	Ser	Asn	Asp	Phe	Thr	Ser
2300						2305					2310			
Leu	Thr	Tyr	Asp	Leu	Ile	Arg	Ser	Gly	Cys	Val	Arg	Asp	Asp	Thr
2315						2320					2325			
Tyr	Gly	Pro	Tyr	Ser	Ser	Pro	Ser	Leu	Arg	Ile	Ala	Arg	Phe	Arg
2330						2335					2340			
Phe	Arg	Ala	Phe	His	Phe	Leu	Asn	Arg	Phe	Pro	Ser	Val	Tyr	Leu
2345						2350					2355			
Arg	Cys	Lys	Met	Val	Val	Cys	Arg	Ala	Tyr	Asp	Pro	Ser	Ser	Arg
2360						2365					2370			
Cys	Tyr	Arg	Gly	Cys	Val	Leu	Arg	Ser	Lys	Arg	Asp	Val	Gly	Ser
2375						2380					2385			
Tyr	Gln	Glu	Lys	Val	Asp	Val	Val	Leu	Gly	Pro	Ile	Gln	Leu	Gln
2390						2395					2400			
Thr	Pro	Pro	Arg	Arg	Glu	Glu	Glu	Pro	Arg					

2405

2410

<210> 51
 <211> 1785
 <212> PRT
 <213> Homo sapiens

<400> 51

Met Gly Ile Ser Thr Val Ile Leu Glu Met Cys Leu Leu Trp Gly Gln
 1 5 10 15

Val Leu Ser Thr Gly Gly Trp Ile Pro Arg Thr Thr Asp Tyr Ala Ser
 20 25 30

Leu Ile Pro Ser Glu Val Pro Leu Asp Gln Thr Val Ala Glu Gly Ser
 35 40 45

Pro Phe Pro Ser Glu Ser Thr Leu Glu Ser Thr Ala Ala Glu Gly Ser
 50 55 60

Pro Ile Ser Leu Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
 65 70 75 80

Leu Ile Pro Ser Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
 85 90 95

Asp Ser Gly Leu Ala Leu Arg Leu Val Asn Gly Asp Gly Arg Cys Gln
 100 105 110

Gly Arg Val Glu Ile Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp
 115 120 125

Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly
 130 135 140

Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Trp Phe Gly Gln Gly
 145 150 155 160

Ser Gly Pro Ile Ala Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser
 165 170 175

Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
 180 185 190

His Gly Glu Asp Ala Gly Val Ile Cys Ser Ala Ala Gln Pro Gln Ser
 195 200 205

Thr Leu Arg Pro Glu Ser Trp Pro Val Arg Ile Ser Pro Pro Val Pro
 210 215 220

Thr Glu Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 225 230 235 240

Asp Arg Cys Arg Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
 245 250 255

Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys
 260 265 270

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln
 275 280 285

Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
 290 295 300

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Thr
 305 310 315 320

His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Pro
 325 330 335

Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala
 340 345 350

Ser Thr Ala Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly
 355 360 365

Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp
 370 375 380

Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala Asn Val Val
 385 390 395 400

Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro Gly Asn Ala
 405 410 415

Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys
 420 425 430

Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu
 435 440 445

Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala
 450 455 460

Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro Thr Ile Thr
 465 470 475 480

Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu
 485 490 495

Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Gln
 500 505 510

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala
 515 520 525

Asn Val Val Cys Arg Gln Pro Gly Cys Gly Trp Ala Met Ser Ala Pro
 530 535 540

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
 545 550 555 560

Val Arg Cys Ser Gly His Glu Ser Tyr Pro Trp Ser Cys Pro His Asn
 565 570 575

Gly Trp Leu Ser His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile
 580 585 590

Cys Ser Ala Ser Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro
 595 600 605

Thr Ser His Ala Ser Thr Ala Gly Ser Glu Ser Ser Leu Ala Leu Arg
 610 615 620

Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr
 625 630 635 640

Arg Gly Ser Trp Gly Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp
 645 650 655

Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala
660 665 670

Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp
675 680 685

Asp Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His
690 695 700

Asn Gly Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly Val
705 710 715 720

Ile Cys Ser Ala Ser Gln Ser Gln Pro Thr Pro Ser Pro Asp Thr Trp
725 730 735

Pro Thr Ser His Ala Ser Thr Ala Gly Ser Glu Ser Ser Leu Ala Leu
740 745 750

Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu
755 760 765

Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn
770 775 780

Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser
785 790 795 800

Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu
805 810 815

Asp Asp Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro
820 825 830

His Asn Gly Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly
835 840 845

Val Ile Cys Ser Ala Ser Gln Ser Gln Pro Thr Pro Ser Pro Asp Thr
850 855 860

Trp Pro Thr Ser Arg Ala Ser Thr Ala Gly Ser Glu Ser Thr Leu Ala
865 870 875 880

Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Arg Gly Arg Val Glu Val
885 890 895

Leu Tyr Gln Gly Ser Trp Gly Thr Val Cys Asp Asp Tyr Trp Asp Thr
900 905 910

Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met
915 920 925

Ser Ala Pro Gly Asn Ala Gln Phe Gly Gln Gly Ser Gly Pro Ile Val
930 935 940

Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys
945 950 955 960

Pro His Asn Gly Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala
965 970 975

Gly Val Ile Cys Ser Ala Ala Gln Ser Gln Ser Thr Pro Arg Pro Asp
980 985 990

Thr Trp Leu Thr Thr Asn Leu Pro Ala Leu Thr Val Gly Ser Glu Ser
995 1000 1005

Ser Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Arg Gly
1010 1015 1020

Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp
1025 1030 1035

Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu
1040 1045 1050

Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Arg Phe Gly
1055 1060 1065

Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly
1070 1075 1080

Asn Glu Ser Tyr Leu Trp Ser Cys Pro His Lys Gly Trp Leu Thr
1085 1090 1095

His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala
1100 1105 1110

Thr Gln	Ile Asn Ser Thr	Thr	Thr Asp Trp Trp His	Pro Thr Thr
1115		1120		1125
Thr Thr	Thr Ala Arg Pro	Ser	Ser Asn Cys Gly Gly	Phe Leu Phe
1130		1135		1140
Tyr Ala	Ser Gly Thr Phe	Ser	Ser Pro Ser Tyr Pro	Ala Tyr Tyr
1145		1150		1155
Pro Asn	Asn Ala Lys Cys Val	Trp Glu Ile Glu Val	Asn Ser Gly	
1160		1165		1170
Tyr Arg	Ile Asn Leu Gly Phe	Ser Asn Leu Lys Leu	Glu Ala His	
1175		1180		1185
His Asn	Cys Ser Phe Asp Tyr	Val Glu Ile Phe Asp	Gly Ser Leu	
1190		1195		1200
Asn Ser	Ser Leu Leu Leu Gly	Lys Ile Cys Asn Asp	Thr Arg Gln	
1205		1210		1215
Ile Phe	Thr Ser Ser Tyr Asn	Arg Met Thr Ile His	Phe Arg Ser	
1220		1225		1230
Asp Ile	Ser Phe Gln Asn Thr	Gly Phe Leu Ala Trp	Tyr Asn Ser	
1235		1240		1245
Phe Pro	Ser Asp Ala Thr Leu	Arg Leu Val Asn Leu	Asn Ser Ser	
1250		1255		1260
Tyr Gly	Leu Cys Ala Gly Arg	Val Glu Ile Tyr His	Gly Gly Thr	
1265		1270		1275
Trp Gly	Thr Val Cys Asp Asp	Ser Trp Thr Ile Gln	Glu Ala Glu	
1280		1285		1290
Val Val	Cys Arg Gln Leu Gly	Cys Gly Arg Ala Val	Ser Ala Leu	
1295		1300		1305
Gly Asn	Ala Tyr Phe Gly Ser	Gly Ser Gly Pro Ile	Thr Leu Asp	
1310		1315		1320
Asp Val	Glu Cys Ser Gly Thr	Glu Ser Thr Leu Trp	Gln Cys Arg	
1325		1330		1335

Asn Arg	Gly Trp Phe Ser His	Asn Cys Asn His Arg	Glu Asp Ala
1340	1345	1350	
Gly Val	Ile Cys Ser Gly Asn	His Leu Ser Thr Pro	Ala Pro Phe
1355	1360	1365	
Leu Asn	Ile Thr Arg Pro Asn	Thr Asp Tyr Ser Cys	Gly Gly Phe
1370	1375	1380	
Leu Ser	Gln Pro Ser Gly Asp	Phe Ser Ser Pro Phe	Tyr Pro Gly
1385	1390	1395	
Asn Tyr	Pro Asn Asn Ala Lys	Cys Val Trp Asp Ile	Glu Val Gln
1400	1405	1410	
Asn Asn	Tyr Arg Val Thr Val	Ile Phe Arg Asp Val	Gln Leu Glu
1415	1420	1425	
Gly Gly	Cys Asn Tyr Asp Tyr	Ile Glu Val Phe Asp	Gly Pro Tyr
1430	1435	1440	
Arg Ser	Ser Pro Leu Ile Ala	Arg Val Cys Asp Gly	Ala Arg Gly
1445	1450	1455	
Ser Phe	Thr Ser Ser Ser Asn	Phe Met Ser Ile Arg	Phe Ile Ser
1460	1465	1470	
Asp His	Ser Ile Thr Arg Arg	Gly Phe Arg Ala Glu	Tyr Tyr Ser
1475	1480	1485	
Ser Pro	Ser Asn Asp Ser Thr	Asn Leu Leu Cys Leu	Pro Asn His
1490	1495	1500	
Met Gln	Ala Ser Val Ser Arg	Ser Tyr Leu Gln Ser	Leu Gly Phe
1505	1510	1515	
Ser Ala	Ser Asp Leu Val Ile	Ser Thr Trp Asn Gly	Tyr Tyr Glu
1520	1525	1530	
Cys Arg	Pro Gln Ile Thr Pro	Asn Leu Val Ile Phe	Thr Ile Pro
1535	1540	1545	

Tyr	Ser	Gly	Cys	Gly	Thr	Phe	Lys	Gln	Ala	Asp	Asn	Asp	Thr	Ile
1550						1555					1560			
Asp	Tyr	Ser	Asn	Phe	Leu	Thr	Ala	Ala	Val	Ser	Gly	Gly	Ile	Ile
1565						1570					1575			
Lys	Arg	Arg	Thr	Asp	Leu	Arg	Ile	His	Val	Ser	Cys	Arg	Met	Leu
1580						1585					1590			
Gln	Asn	Thr	Trp	Val	Asp	Thr	Met	Tyr	Ile	Ala	Asn	Asp	Thr	Ile
1595						1600					1605			
His	Val	Ala	Asn	Asn	Thr	Ile	Gln	Val	Glu	Glu	Val	Gln	Tyr	Gly
1610						1615					1620			
Asn	Phe	Asp	Val	Asn	Ile	Ser	Phe	Tyr	Thr	Ser	Ser	Ser	Phe	Leu
1625						1630					1635			
Tyr	Pro	Val	Thr	Ser	Arg	Pro	Tyr	Tyr	Val	Asp	Leu	Asn	Gln	Asp
1640						1645					1650			
Leu	Tyr	Val	Gln	Ala	Glu	Ile	Leu	His	Ser	Asp	Ala	Val	Leu	Thr
1655						1660					1665			
Leu	Phe	Val	Asp	Thr	Cys	Val	Ala	Ser	Pro	Tyr	Ser	Asn	Asp	Phe
1670						1675					1680			
Thr	Ser	Leu	Thr	Tyr	Asp	Leu	Ile	Arg	Ser	Gly	Cys	Val	Arg	Asp
1685						1690					1695			
Asp	Thr	Tyr	Gly	Pro	Tyr	Ser	Ser	Pro	Ser	Leu	Arg	Ile	Ala	Arg
1700						1705					1710			
Phe	Arg	Phe	Arg	Ala	Phe	His	Phe	Leu	Asn	Arg	Phe	Pro	Ser	Val
1715						1720					1725			
Tyr	Leu	Arg	Cys	Lys	Met	Val	Val	Cys	Arg	Ala	Tyr	Asp	Pro	Ser
1730						1735					1740			
Ser	Arg	Cys	Tyr	Arg	Gly	Cys	Val	Leu	Arg	Ser	Lys	Arg	Asp	Val
1745						1750					1755			
Gly	Ser	Tyr	Gln	Glu	Lys	Val	Asp	Val	Val	Leu	Gly	Pro	Ile	Gln
1760						1765					1770			

Leu Gln Thr Pro Pro Arg Arg Glu Glu Glu Pro Arg
 1775 1780 1785

<210> 52
 <211> 34
 <212> PRT
 <213> Bos taurus

<400> 52

Leu Ile Pro Cys Cys Pro Val Asn Ile Lys Arg Leu Leu Ile Val Val
 1 5 10 15

Val Val Val Val Leu Leu Val Val Val Ile Val Gly Ala Leu Leu Met
 20 25 30

Gly Leu

<210> 53
 <211> 35
 <212> PRT
 <213> Canis familiaris

<400> 53

Leu Gly Ile Pro Cys Phe Pro Ser Ser Leu Lys Arg Leu Leu Ile Ile
 1 5 10 15

Val Val Val Ile Val Leu Val Val Val Val Ile Val Gly Ala Leu Leu
 20 25 30

Met Gly Leu
 35

<210> 54
 <211> 371
 <212> PRT
 <213> Bos taurus

<400> 54

Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Leu Thr Gln Pro Trp
 1 5 10 15

Arg Ser Leu Gly Ala Glu Met Thr Thr Phe Ser Gln Lys Ile Leu Ala
 20 25 30

Asn Ala Cys Thr Leu Val Met Cys Ser Pro Leu Glu Ser Gly Leu Pro
 35 40 45

Gly His Asp Gly Gln Asp Gly Arg Glu Cys Pro His Gly Glu Lys Gly
 50 55 60

Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Arg Pro Gly Trp
 65 70 75 80

Val Gly Pro Ile Gly Pro Lys Gly Asp Asn Gly Phe Val Gly Glu Pro
 85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Arg Gly Pro Pro Gly Met Pro Gly
 100 105 110

Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro
 115 120 125

Pro Gly Thr Pro Gly Pro Lys Gly Glu Thr Gly Pro Lys Gly Gly Val
 130 135 140

Gly Ala Pro Gly Ile Gln Gly Phe Pro Gly Pro Ser Gly Leu Lys Gly
 145 150 155 160

Glu Lys Gly Ala Pro Gly Glu Thr Gly Ala Pro Gly Arg Ala Gly Val
 165 170 175

Thr Gly Pro Ser Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg
 180 185 190

Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly Glu Thr Gly
 195 200 205

Ala Lys Gly Glu Ser Gly Leu Ala Glu Val Asn Ala Leu Lys Gln Arg
 210 215 220

Val Thr Ile Leu Asp Gly His Leu Arg Arg Phe Gln Asn Ala Phe Ser
 225 230 235 240

Gln Tyr Lys Lys Ala Val Leu Phe Pro Asp Gly Gln Ala Val Gly Glu
 245 250 255

Lys Ile Phe Lys Thr Ala Gly Ala Val Lys Ser Tyr Ser Asp Ala Glu

260 265 270
 Gln Leu Cys Arg Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ser
 275 280 285
 Ala Glu Asn Glu Ala Val Thr Gln Met Val Arg Ala Gln Glu Lys Asn
 290 295 300
 Ala Tyr Leu Ser Met Asn Asp Ile Ser Thr Glu Gly Arg Phe Thr Tyr
 305 310 315 320
 Pro Thr Gly Glu Ile Leu Val Tyr Ser Asn Trp Ala Asp Gly Glu Pro
 325 330 335
 Asn Asn Ser Asp Glu Gly Gln Pro Glu Asn Cys Val Glu Ile Phe Pro
 340 345 350
 Asp Gly Lys Trp Asn Asp Val Pro Cys Ser Lys Gln Leu Leu Val Ile
 355 360 365
 Cys Glu Phe
 370

 <210> 55
 <211> 375
 <212> PRT
 <213> Homo sapiens

 <400> 55
 Met Leu Leu Phe Leu Leu Ser Ala Leu Val Leu Leu Thr Gln Pro Leu
 1 5 10 15
 Gly Tyr Leu Glu Ala Glu Met Lys Thr Tyr Ser His Arg Thr Met Pro
 20 25 30
 Ser Ala Cys Thr Leu Val Met Cys Ser Ser Val Glu Ser Gly Leu Pro
 35 40 45
 Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
 50 55 60
 Asp Pro Gly Leu Pro Gly Ala Ala Gly Gln Ala Gly Met Pro Gly Gln
 65 70 75 80

Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Val Gly Glu Pro
 85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Ser Gly Pro Pro Gly Pro Pro Gly
 100 105 110

Val Pro Gly Pro Ala Gly Arg Glu Gly Ala Leu Gly Lys Gln Gly Asn
 115 120 125

Ile Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys
 130 135 140

Gly Glu Val Gly Ala Pro Gly Met Gln Gly Ser Ala Gly Ala Arg Gly
 145 150 155 160

Leu Ala Gly Pro Lys Gly Glu Arg Gly Val Pro Gly Glu Arg Gly Val
 165 170 175

Pro Gly Asn Thr Gly Ala Ala Gly Ser Ala Gly Ala Met Gly Pro Gln
 180 185 190

Gly Ser Pro Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Lys Gly
 195 200 205

Ile Pro Gly Asp Lys Gly Ala Lys Gly Glu Ser Gly Leu Pro Asp Val
 210 215 220

Ala Ser Leu Arg Gln Gln Val Glu Ala Leu Gln Gly Gln Val Gln His
 225 230 235 240

Leu Gln Ala Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn
 245 250 255

Gly Gln Ser Val Gly Glu Lys Ile Phe Lys Thr Ala Gly Phe Val Lys
 260 265 270

Pro Phe Thr Glu Ala Gln Leu Leu Cys Thr Gln Ala Gly Gly Gln Leu
 275 280 285

Ala Ser Pro Arg Ser Ala Ala Glu Asn Ala Ala Leu Gln Gln Leu Val
 290 295 300

Val Ala Lys Asn Glu Ala Ala Phe Leu Ser Met Thr Asp Ser Lys Thr
 305 310 315 320

Glu Gly Lys Phe Thr Tyr Pro Thr Gly Glu Ser Leu Val Tyr Ser Asn
 325 330 335

Trp Ala Pro Gly Glu Pro Asn Asp Asp Gly Gly Ser Glu Asp Cys Val
 340 345 350

Glu Ile Phe Thr Asn Gly Lys Trp Asn Asp Arg Ala Cys Gly Glu Lys
 355 360 365

Arg Leu Val Val Cys Glu Phe
 370 375

<210> 56
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 56

Met Asp Val Gly Ser Lys Glu Val Leu Met Glu Ser Pro Pro Asp Tyr
 1 5 10 15

Ser Ala Ala Pro Arg Gly Arg Phe Gly Ile Pro Cys Cys Pro Val His
 20 25 30

Leu Lys Arg Leu Leu Ile Val Val Val Val Val Val Leu Ile Val Val
 35 40 45

Val Ile Val Gly Ala Leu Leu Met Gly Leu His Met Ser Gln Lys His
 50 55 60

Thr Glu Met Val Leu Glu Met Ser Ile Gly Ala Pro Glu Ala Gln Gln
 65 70 75 80

Arg Leu Ala Leu Ser Glu His Leu Val Thr Thr Ala Thr Phe Ser Ile
 85 90 95

Gly Ser Thr Gly Leu Val Val Tyr Asp Tyr Gln Gln Leu Leu Ile Ala
 100 105 110

Tyr Lys Pro Ala Pro Gly Thr Cys Cys Tyr Ile Met Lys Ile Ala Pro
 115 120 125

Glu Ser Ile Pro Ser Leu Glu Ala Leu Asn Arg Lys Val His Asn Phe

130 135 140
 Gln Met Glu Cys Ser Leu Gln Ala Lys Pro Ala Val Pro Thr Ser Lys
 145 150 155 160
 Leu Gly Gln Ala Glu Gly Arg Asp Ala Gly Ser Ala Pro Ser Gly Gly
 165 170 175
 Asp Pro Ala Phe Leu Gly Met Ala Val Asn Thr Leu Cys Gly Glu Val
 180 185 190
 Pro Leu Tyr Tyr Ile
 195
 <210> 57
 <211> 248
 <212> PRT
 <213> Canis familiaris
 <400> 57
 Met Trp Leu Arg Cys Leu Ala Leu Ala Leu Thr Leu Leu Met Val Ser
 1 5 10 15
 Gly Ile Glu Asn Asn Thr Lys Asp Val Cys Val Gly Asn Pro Gly Ile
 20 25 30
 Pro Gly Thr Pro Gly Ser His Gly Leu Pro Gly Arg Asp Gly Arg Asp
 35 40 45
 Gly Val Lys Gly Asp Pro Gly Pro Pro Gly Pro Leu Gly Pro Pro Gly
 50 55 60
 Gly Met Pro Gly His Pro Gly Pro Asn Gly Met Thr Gly Ala Pro Gly
 65 70 75 80
 Val Ala Gly Glu Arg Gly Glu Lys Gly Glu Pro Gly Glu Arg Gly Pro
 85 90 95
 Pro Gly Leu Pro Ala Ser Leu Asp Glu Glu Leu Gln Thr Thr Leu His
 100 105 110
 Asp Leu Arg His Gln Ile Leu Gln Thr Met Gly Val Leu Ser Leu His
 115 120 125

Glu Ser Leu Leu Val Val Gly Arg Lys Val Phe Ser Ser Gly Ala Gln
 130 135 140

Ser Ile Asn Phe Asn Asp Ile Gln Glu Leu Cys Ala Gly Ala Gly Gly
 145 150 155 160

Gln Ile Ala Ala Pro Met Ser Pro Glu Glu Asn Glu Ala Val Ala Ser
 165 170 175

Ile Val Lys Lys Tyr Asn Thr Tyr Ala Tyr Leu Gly Leu Val Glu Ser
 180 185 190

Pro Asp Ser Gly Asp Phe Gln Tyr Met Asp Gly Ala Pro Val Asn Tyr
 195 200 205

Thr Asn Trp Tyr Pro Gly Glu Pro Arg Gly Arg Gly Lys Glu Gln Cys
 210 215 220

Val Glu Met Tyr Thr Asp Gly Gln Trp Asn Asn Lys Asn Cys Leu Gln
 225 230 235 240

Tyr Arg Leu Ala Ile Cys Glu Phe
 245

<210> 58
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 58

Met Trp Leu Cys Pro Leu Ala Leu Asn Leu Ile Leu Met Ala Ala Ser
 1 5 10 15

Gly Ala Val Cys Glu Val Lys Asp Val Cys Val Gly Ser Pro Gly Ile
 20 25 30

Pro Gly Thr Pro Gly Ser His Gly Leu Pro Gly Arg His Gly Arg Asp
 35 40 45

Gly Leu Lys Gly Asp Leu Gly Pro Pro Gly Pro Met Gly Pro Pro Gly
 50 55 60

Glu Met Pro Cys Pro Pro Gly Asn Asp Gly Leu Pro Gly Ala Pro Gly
 65 70 75 80

Ile Pro Gly Glu Cys Gly Glu Lys Gly Glu Pro Gly Glu Arg Gly Pro
85 90 95

Pro Gly Leu Pro Ala His Leu Asp Glu Glu Leu Gln Ala Thr Leu His
100 105 110

Asp Phe Arg His Gln Ile Leu Gln Thr Arg Gly Ala Leu Ser Leu Gln
115 120 125

Gly Ser Ile Met Thr Val Gly Glu Lys Val Phe Ser Ser Asn Gly Gln
130 135 140

Ser Ile Thr Phe Asp Ala Ile Gln Glu Ala Cys Ala Arg Ala Gly Gly
145 150 155 160

Arg Ile Ala Val Pro Arg Asn Pro Glu Glu Asn Glu Ala Ile Ala Ser
165 170 175

Phe Val Lys Lys Tyr Asn Thr Tyr Ala Tyr Val Gly Leu Thr Glu Gly
180 185 190

Pro Ser Pro Gly Asp Phe Arg Tyr Ser Asp Gly Thr Pro Val Asn Tyr
195 200 205

Thr Asn Trp Tyr Arg Gly Glu Pro Ala Gly Arg Gly Lys Glu Gln Cys
210 215 220

Val Glu Met Tyr Thr Asp Gly Gln Trp Asn Asp Arg Asn Cys Leu Tyr
225 230 235 240

Ser Arg Leu Thr Ile Cys Glu Phe
245

<210> 59
<211> 301
<212> PRT
<213> Bos taurus

<400> 59

Glu Glu Met Asp Val Tyr Ser Glu Lys Thr Leu Thr Asp Pro Cys Thr
1 5 10 15

Leu Val Val Cys Ala Pro Pro Ala Asp Ser Leu Arg Gly His Asp Gly
20 25 30

Arg Asp Gly Lys Glu Gly Pro Gln Gly Glu Lys Gly Asp Pro Gly Pro
 35 40 45

Pro Gly Met Pro Gly Pro Ala Gly Arg Glu Gly Pro Ser Gly Arg Gln
 50 55 60

Gly Ser Met Gly Pro Pro Gly Thr Pro Gly Pro Lys Gly Glu Pro Gly
 65 70 75 80

Pro Glu Gly Gly Val Gly Ala Pro Gly Met Pro Gly Ser Pro Gly Pro
 85 90 95

Ala Gly Leu Lys Gly Glu Arg Gly Ala Pro Gly Pro Gly Gly Ala Ile
 100 105 110

Gly Pro Gln Gly Pro Ser Gly Ala Met Gly Pro Pro Gly Leu Lys Gly
 115 120 125

Asp Arg Gly Asp Pro Gly Glu Lys Gly Ala Arg Gly Glu Thr Ser Val
 130 135 140

Leu Glu Val Asp Thr Leu Arg Gln Arg Met Arg Asn Leu Glu Gly Glu
 145 150 155 160

Val Gln Arg Leu Gln Asn Ile Val Thr Gln Tyr Arg Lys Ala Val Leu
 165 170 175

Phe Pro Asp Gly Gln Ala Val Gly Glu Lys Ile Phe Lys Thr Ala Gly
 180 185 190

Ala Val Lys Ser Tyr Ser Asp Ala Glu Gln Leu Cys Arg Glu Ala Lys
 195 200 205

Gly Gln Leu Ala Ser Pro Arg Ser Ser Ala Glu Asn Glu Ala Val Thr
 210 215 220

Gln Leu Val Arg Ala Lys Asn Lys His Ala Tyr Leu Ser Met Asn Asp
 225 230 235 240

Ile Ser Lys Glu Gly Lys Phe Thr Tyr Pro Thr Gly Gly Ser Leu Asp
 245 250 255

Tyr Ser Asn Trp Ala Pro Gly Glu Pro Asn Asn Arg Ala Lys Asp Glu
260 265 270

Gly Pro Glu Asn Cys Leu Glu Ile Tyr Ser Asp Gly Asn Trp Asn Asp
275 280 285

Ile Glu Cys Arg Glu Glu Arg Leu Val Ile Cys Glu Phe
290 295 300

<210> 60
<211> 369
<212> PRT
<213> Bos taurus

<400> 60

Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Leu Thr Gln Pro Trp
1 5 10 15

Arg Ser Leu Gly Ala Glu Met Lys Ile Tyr Ser Gln Lys Thr Met Ala
20 25 30

Asn Ala Cys Thr Leu Val Met Cys Ser Pro Pro Glu Asp Gly Leu Pro
35 40 45

Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
50 55 60

Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Met Pro Gly Pro
65 70 75 80

Ala Gly Pro Ile Gly Leu Lys Gly Asp Asn Gly Ser Ala Gly Glu Pro
85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Pro Gly Pro Pro Gly Met Pro Gly
100 105 110

Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro
115 120 125

Pro Gly Thr Pro Gly Pro Lys Gly Asp Thr Gly Pro Lys Gly Gly Val
130 135 140

Gly Ala Pro Gly Ile Gln Gly Ser Pro Gly Pro Ala Gly Leu Lys Gly
145 150 155 160

Glu Arg Gly Ala Pro Gly Asp Pro Gly Ala Pro Gly Arg Ala Gly Ala
165 170 175

Pro Gly Pro Arg Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg
180 185 190

Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Thr Pro Gly Glu Arg Gly
195 200 205

Ala Lys Gly Glu Ser Gly Leu Ala Glu Val Asn Ala Leu Arg Gln Arg
210 215 220

Val Gly Ile Leu Glu Gly Gln Leu Gln Arg Leu Gln Asn Ala Phe Ser
225 230 235 240

Gln Tyr Lys Lys Ala Met Leu Phe Pro Asn Gly Arg Ser Val Gly Glu
245 250 255

Lys Ile Phe Lys Thr Val Gly Ser Glu Lys Thr Phe Gln Asp Ala Gln
260 265 270

Gln Ile Cys Thr Gln Ala Gly Gly Gln Leu Pro Ser Pro Arg Ser Gly
275 280 285

Ala Glu Asn Glu Ala Leu Thr Gln Leu Ala Thr Ala Gln Asn Lys Ala
290 295 300

Ala Phe Leu Ser Met Ser Asp Thr Arg Lys Glu Gly Thr Phe Ile Tyr
305 310 315 320

Pro Thr Gly Glu Pro Leu Val Tyr Ser Asn Trp Ala Pro Gln Glu Pro
325 330 335

Asn Asn Asp Gly Gly Ser Glu Asn Cys Val Glu Ile Phe Pro Asn Gly
340 345 350

Lys Trp Asn Asp Lys Val Cys Gly Glu Gln Arg Leu Val Ile Cys Glu
355 360 365

Phe

<210> 61

<211> 116
<212> PRT
<213> Sus scrofa

<400> 61

Ala Val Gly Glu Lys Val Phe Ser Thr Asn Gly Gln Ser Val Ala Phe
1 5 10 15

Asp Val Ile Arg Glu Leu Cys Ala Arg Ala Gly Gly Arg Ile Ala Ala
20 25 30

Pro Arg Ser Pro Glu Glu Asn Glu Ala Ile Ala Ser Ile Val Lys Lys
35 40 45

His Asn Thr Tyr Ala Tyr Leu Gly Leu Val Glu Gly Pro Thr Ala Gly
50 55 60

Asp Phe Phe Tyr Leu Asp Gly Thr Pro Val Asn Tyr Thr Asn Trp Tyr
65 70 75 80

Pro Gly Glu Pro Arg Gly Arg Gly Lys Glu Lys Cys Val Glu Met Tyr
85 90 95

Thr Asp Gly Gln Trp Asn Asp Arg Asn Cys Gln Gln Tyr Arg Leu Ala
100 105 110

Ile Cys Glu Phe
115

<210> 62
<211> 378
<212> PRT
<213> Sus scrofa

<400> 62

Met Leu Leu Leu Pro Leu Ser Val Leu Ile Leu Leu Thr Gln Pro Pro
1 5 10 15

Arg Ser Leu Gly Ala Glu Met Lys Thr Tyr Ser Gln Arg Ala Val Ala
20 25 30

Asn Ala Cys Ala Leu Val Met Cys Ser Pro Met Glu Asn Gly Leu Pro
35 40 45

Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly

50	55	60
Asp Pro Gly Leu Pro Gly Ala Val Gly Arg Ala Gly Met Pro Gly Leu		
65	70	75 80
Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Thr Gly Glu Pro		
	85	90 95
Gly Ala Lys Gly Asp Ile Gly Pro Cys Gly Pro Pro Gly Pro Pro Gly		
	100	105 110
Ile Pro Gly Pro Ala Gly Lys Glu Gly Pro Ser Gly Gln Gln Gly Asn		
	115	120 125
Ile Gly Pro Pro Gly Thr Pro Gly Pro Lys Gly Glu Thr Gly Pro Lys		
	130	135 140
Gly Glu Val Gly Ala Leu Gly Met Gln Gly Ser Thr Gly Ala Arg Gly		
145	150	155 160
Pro Ala Gly Leu Lys Gly Glu Arg Gly Ala Pro Gly Glu Arg Gly Ala		
	165	170 175
Pro Gly Ser Ala Gly Ala Ala Gly Pro Ala Gly Ala Thr Gly Pro Gln		
	180	185 190
Gly Pro Ser Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly		
	195	200 205
Pro Pro Gly Glu Arg Gly Ala Lys Gly Glu Ser Gly Leu Pro Gly Ile		
	210	215 220
Thr Ala Leu Arg Gln Gln Val Glu Thr Leu Gln Gly Gln Val Gln Arg		
225	230	235 240
Leu Gln Lys Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn		
	245	250 255
Gly Arg Gly Val Gly Glu Lys Ile Phe Lys Thr Gly Gly Phe Glu Lys		
	260	265 270
Thr Phe Gln Asp Ala Gln Gln Val Cys Thr Gln Ala Gly Gly Gln Met		
	275	280 285

Ala Ser Pro Arg Ser Glu Thr Glu Asn Glu Ala Leu Ser Gln Leu Val
290 295 300

Thr Ala Gln Asn Lys Ala Ala Phe Leu Ser Met Thr Asp Ile Lys Thr
305 310 315 320

Glu Gly Asn Phe Thr Tyr Pro Thr Gly Glu Pro Leu Val Tyr Ala Asn
325 330 335

Trp Ala Pro Gly Glu Pro Asn Asn Asn Gly Gly Ser Ser Gly Ala Glu
340 345 350

Asn Cys Val Glu Ile Phe Pro Asn Gly Lys Trp Asn Asp Lys Ala Cys
355 360 365

Gly Glu Leu Arg Leu Val Ile Cys Glu Phe
370 375

<210> 63
<211> 34
<212> PRT
<213> Bos taurus

<400> 63

Leu Ile Pro Cys Cys Pro Val Asn Ile Lys Arg Leu Leu Ile Val Val
1 5 10 15

Val Val Val Val Leu Leu Val Val Val Ile Val Gly Ala Leu Leu Met
20 25 30

Gly Leu

<210> 64
<211> 369
<212> PRT
<213> Bos taurus

<400> 64

Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Leu Thr Gln Pro Trp
1 5 10 15

Arg Ser Leu Gly Ala Glu Met Lys Ile Tyr Ser Gln Lys Thr Met Ala
20 25 30

Asn Ala Cys Thr Leu Val Met Cys Ser Pro Pro Glu Asp Gly Leu Pro
 35 40 45

Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
 50 55 60

Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Met Pro Gly Pro
 65 70 75 80

Ala Gly Pro Ile Gly Leu Lys Gly Asp Asn Gly Ser Ala Gly Glu Pro
 85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Pro Gly Pro Pro Gly Met Pro Gly
 100 105 110

Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro
 115 120 125

Pro Gly Thr Pro Gly Pro Lys Gly Asp Thr Gly Pro Lys Gly Gly Val
 130 135 140

Gly Ala Pro Gly Ile Gln Gly Ser Pro Gly Pro Ala Gly Leu Lys Gly
 145 150 155 160

Glu Arg Gly Ala Pro Gly Glu Pro Gly Ala Pro Gly Arg Ala Gly Ala
 165 170 175

Pro Gly Pro Ala Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg
 180 185 190

Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Thr Pro Gly Glu Arg Gly
 195 200 205

Ala Lys Gly Glu Ser Gly Leu Ala Glu Val Asn Ala Leu Arg Gln Arg
 210 215 220

Val Gly Ile Leu Glu Gly Gln Leu Gln Arg Leu Gln Asn Ala Phe Ser
 225 230 235 240

Gln Tyr Lys Lys Ala Met Leu Phe Pro Asn Gly Arg Ser Val Gly Glu
 245 250 255

Lys Ile Phe Lys Thr Val Gly Ser Glu Lys Thr Phe Gln Asp Ala Gln

260

265

270

Gln Ile Cys Thr Gln Ala Gly Gly Gln Leu Pro Ser Pro Arg Ser Gly
 275 280 285

Ala Glu Asn Glu Ala Leu Thr Gln Leu Ala Thr Ala Gln Asn Lys Ala
 290 295 300

Ala Phe Leu Ser Met Ser Asp Thr Arg Lys Glu Gly Thr Phe Ile Tyr
 305 310 315 320

Pro Thr Gly Glu Pro Leu Val Tyr Ser Asn Trp Ala Pro Gln Glu Pro
 325 330 335

Asn Asn Asp Gly Gly Ser Glu Asn Cys Val Glu Ile Phe Pro Asn Gly
 340 345 350

Lys Trp Asn Asp Lys Val Cys Gly Glu Gln Arg Leu Val Ile Cys Glu
 355 360 365

Phe

<210> 65
 <211> 301
 <212> PRT
 <213> Bos taurus

<400> 65

Glu Glu Met Asp Val Tyr Ser Glu Lys Thr Leu Thr Asp Pro Cys Thr
 1 5 10 15

Leu Val Val Cys Ala Pro Pro Ala Asp Ser Leu Arg Gly His Asp Gly
 20 25 30

Arg Asp Gly Lys Glu Gly Pro Gln Gly Glu Lys Gly Asp Pro Gly Pro
 35 40 45

Pro Gly Met Pro Gly Pro Ala Gly Arg Glu Gly Pro Ser Gly Arg Gln
 50 55 60

Gly Ser Met Gly Pro Pro Gly Thr Pro Gly Pro Lys Gly Glu Pro Gly
 65 70 75 80

Pro Glu Gly Gly Val Gly Ala Pro Gly Met Pro Gly Ser Pro Gly Pro
85 90 95

Ala Gly Leu Lys Gly Glu Arg Gly Ala Pro Gly Pro Gly Gly Ala Ile
100 105 110

Gly Pro Gln Gly Pro Ser Gly Ala Met Gly Pro Pro Gly Leu Lys Gly
115 120 125

Asp Arg Gly Asp Pro Gly Glu Lys Gly Ala Arg Gly Glu Thr Ser Val
130 135 140

Leu Glu Val Asp Thr Leu Arg Gln Arg Met Arg Asn Leu Glu Gly Glu
145 150 155 160

Val Gln Arg Leu Gln Asn Ile Val Thr Gln Tyr Arg Lys Ala Val Leu
165 170 175

Phe Pro Asp Gly Gln Ala Val Gly Glu Lys Ile Phe Lys Thr Ala Gly
180 185 190

Ala Val Lys Ser Tyr Ser Asp Ala Glu Gln Leu Cys Arg Glu Ala Lys
195 200 205

Gly Gln Leu Ala Ser Pro Arg Ser Ser Ala Glu Asn Glu Ala Val Thr
210 215 220

Gln Leu Val Arg Ala Lys Asn Lys His Ala Tyr Leu Ser Met Asn Asp
225 230 235 240

Ile Ser Lys Glu Gly Lys Phe Thr Tyr Pro Thr Gly Gly Ser Leu Asp
245 250 255

Tyr Ser Asn Trp Ala Pro Gly Glu Pro Gly Asn Arg Ala Lys Asp Glu
260 265 270

Gly Pro Glu Asn Cys Leu Glu Ile Tyr Ser Asp Gly Asn Trp Asn Asp
275 280 285

Ile Glu Cys Arg Glu Glu Arg Leu Val Ile Cys Glu Phe
290 295 300

<210> 66
<211> 2412

<212> PRT
<213> Homo sapiens

<400> 66

Met Gly Ile Ser Thr Val Ile Leu Glu Met Cys Leu Leu Trp Gly Gln
1 5 10 15

Val Leu Ser Thr Gly Gly Trp Ile Pro Arg Thr Thr Asp Tyr Ala Ser
20 25 30

Leu Ile Pro Ser Glu Val Pro Leu Asp Thr Thr Val Ala Glu Gly Ser
35 40 45

Pro Phe Pro Ser Glu Leu Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
50 55 60

Pro Ile Ser Leu Glu Ser Thr Leu Glu Thr Thr Val Ala Glu Gly Ser
65 70 75 80

Leu Ile Pro Ser Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
85 90 95

Asp Ser Gly Leu Ala Leu Arg Leu Val Asn Gly Asp Gly Arg Cys Gln
100 105 110

Gly Arg Val Glu Ile Leu Tyr Arg Gly Ser Trp Gly Ala Val Cys Asp
115 120 125

Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly
130 135 140

Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Trp Phe Gly Gln Gly
145 150 155 160

Ser Gly Pro Ile Ala Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser
165 170 175

Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
180 185 190

His Gly Glu Asp Ala Gly Val Ile Cys Ser Ala Ala Gln Pro Gln Ser
195 200 205

Thr Leu Arg Pro Glu Ser Trp Pro Val Arg Ile Ser Pro Pro Val Pro

210	215	220
Thr Glu Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly 225 230 235 240		
Asp Arg Cys Arg Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly 245 250 255		
Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys 260 265 270		
Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln 275 280 285		
Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser 290 295 300		
Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Thr 305 310 315 320		
His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Pro 325 330 335		
Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala 340 345 350		
Ser Thr Ala Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly 355 360 365		
Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp 370 375 380		
Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala Asn Val Val 385 390 395 400		
Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro Gly Asn Ala 405 410 415		
Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys 420 425 430		
Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu 435 440 445		

Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala
 450 455 460

Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro Thr Ile Thr
 465 470 475 480

Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu
 485 490 495

Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg
 500 505 510

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala
 515 520 525

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Leu Ala Pro
 530 535 540

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
 545 550 555 560

Val Arg Cys Ser Gly Asn Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
 565 570 575

Gly Trp Leu Ser His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile
 580 585 590

Cys Ser Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 595 600 605

Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
 610 615 620

Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys
 625 630 635 640

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Arg
 645 650 655

Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
 660 665 670

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro Asn Asn Gly Trp Leu Ser

675

680

685

His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ala
690 695 700

Gln Ser Arg Ser Thr Pro Arg Pro Asp Thr Leu Ser Thr Ile Thr Leu
705 710 715 720

Pro Pro Ser Thr Val Gly Ser Glu Ser Ser Leu Thr Leu Arg Leu Val
725 730 735

Asn Gly Ser Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly
740 745 750

Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn
755 760 765

Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro Gly
770 775 780

Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val
785 790 795 800

Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly
805 810 815

Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys
820 825 830

Ser Val Ser Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr
835 840 845

Ser His Ala Ser Thr Ala Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu
850 855 860

Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg
865 870 875 880

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala
885 890 895

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro
900 905 910

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
 915 920 925

Val Arg Cys Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
 930 935 940

Gly Trp Leu Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile
 945 950 955 960

Cys Ser Ala Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro
 965 970 975

Thr Ile Thr Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala
 980 985 990

Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val
 995 1000 1005

Leu Tyr Gln Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp
 1010 1015 1020

Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp
 1025 1030 1035

Ala Met Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly
 1040 1045 1050

Pro Ile Val Leu Asp Asp Ala Arg Cys Ser Gly His Glu Ser Tyr
 1055 1060 1065

Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
 1070 1075 1080

His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Ser Gln Ser Arg
 1085 1090 1095

Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala Ser Thr
 1100 1105 1110

Ala Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 1115 1120 1125

Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp

1130		1135		1140
Gly Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val				
1145		1150		1155
Ala Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly				
1160		1165		1170
Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp				
1175		1180		1185
Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His				
1190		1195		1200
Asn Gly Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly				
1205		1210		1215
Val Ile Cys Ser Ala Ser Gln Ser Gln Pro Thr Pro Ser Pro Asp				
1220		1225		1230
Thr Trp Pro Thr Ser His Ala Ser Thr Ala Gly Ser Glu Ser Ser				
1235		1240		1245
Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg				
1250		1255		1260
Val Glu Val Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp				
1265		1270		1275
Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly				
1280		1285		1290
Cys Gly Trp Ala Thr Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln				
1295		1300		1305
Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly His				
1310		1315		1320
Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His				
1325		1330		1335
Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ser				
1340		1345		1350

Gln Ser	Gln Pro Thr Pro Ser	Pro Asp Thr Trp Pro	Thr Ser His
1355	1360	1365	
Ala Ser	Thr Ala Gly Ser Glu	Ser Ser Leu Ala Leu	Arg Leu Val
1370	1375	1380	
Asn Gly	Gly Asp Arg Cys Gln	Gly Arg Val Glu Val	Leu Tyr Arg
1385	1390	1395	
Gly Ser	Trp Gly Thr Val Cys	Asp Asp Tyr Trp Asp	Thr Asn Asp
1400	1405	1410	
Ala Asn	Val Val Cys Arg Gln	Leu Gly Cys Gly Trp	Ala Thr Ser
1415	1420	1425	
Ala Pro	Gly Asn Ala Arg Phe	Gly Gln Gly Ser Gly	Pro Ile Val
1430	1435	1440	
Leu Asp	Asp Val Arg Cys Ser	Gly His Glu Ser Tyr	Leu Trp Ser
1445	1450	1455	
Cys Pro	His Asn Gly Trp Leu	Ser His Asn Cys Gly	His His Glu
1460	1465	1470	
Asp Ala	Gly Val Ile Cys Ser	Ala Phe Gln Ser Gln	Pro Thr Pro
1475	1480	1485	
Ser Pro	Asp Thr Trp Pro Thr	Ser Arg Ala Ser Thr	Ala Gly Ser
1490	1495	1500	
Glu Ser	Thr Leu Ala Leu Arg	Leu Val Asn Gly Gly	Asp Arg Cys
1505	1510	1515	
Arg Gly	Arg Val Glu Val Leu	Tyr Gln Gly Ser Trp	Gly Thr Val
1520	1525	1530	
Cys Asp	Asp Tyr Trp Asp Thr	Asn Asp Ala Asn Val	Val Cys Arg
1535	1540	1545	
Gln Leu	Gly Cys Gly Trp Ala	Met Ser Ala Pro Gly	Asn Ala Gln
1550	1555	1560	
Phe Gly	Gln Gly Ser Gly Pro	Ile Val Leu Asp Asp	Val Arg Cys

1565		1570		1575
Ser Gly His Glu Pro Tyr Leu Trp Ser Cys Pro His Asn Gly Trp				
1580		1585		1590
Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys				
1595		1600		1605
Ser Ala Ala Gln Ser Gln Ser Thr Pro Arg Pro Asp Thr Trp Leu				
1610		1615		1620
Thr Thr Asn Leu Pro Ala Leu Thr Val Gly Ser Glu Ser Ser Leu				
1625		1630		1635
Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Arg Gly Arg Val				
1640		1645		1650
Glu Val Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp Ser				
1655		1660		1665
Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly Cys				
1670		1675		1680
Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly				
1685		1690		1695
Ser Gly Pro Ile Val Leu Gly Asp Val Arg Cys Ser Gly Asn Glu				
1700		1705		1710
Ser Tyr Leu Trp Ser Cys Pro His Lys Gly Trp Leu Thr His Asn				
1715		1720		1725
Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Thr Gln				
1730		1735		1740
Ile Asn Ser Thr Thr Thr Asp Trp Trp His Pro Thr Thr Thr Thr				
1745		1750		1755
Thr Ala Arg Pro Ser Ser Asn Cys Gly Gly Phe Leu Phe Tyr Ala				
1760		1765		1770
Ser Gly Thr Phe Ser Ser Pro Ser Tyr Pro Ala Tyr Tyr Pro Asn				
1775		1780		1785

Asn	Ala	Lys	Cys	Val	Trp	Glu	Ile	Glu	Val	Asn	Ser	Gly	Tyr	Arg
1790						1795					1800			
Ile	Asn	Leu	Gly	Phe	Ser	Asn	Leu	Lys	Leu	Glu	Ala	His	His	Asn
1805						1810					1815			
Cys	Ser	Phe	Asp	Tyr	Val	Glu	Ile	Phe	Asp	Gly	Ser	Leu	Asn	Ser
1820						1825					1830			
Ser	Leu	Leu	Leu	Gly	Lys	Ile	Cys	Asn	Asp	Thr	Arg	Gln	Ile	Phe
1835						1840					1845			
Thr	Ser	Ser	Tyr	Asn	Arg	Met	Thr	Ile	His	Phe	Arg	Ser	Asp	Ile
1850						1855					1860			
Ser	Phe	Gln	Asn	Thr	Gly	Phe	Leu	Ala	Trp	Tyr	Asn	Ser	Phe	Pro
1865						1870					1875			
Ser	Asp	Ala	Thr	Leu	Arg	Leu	Val	Asn	Leu	Asn	Ser	Ser	Tyr	Gly
1880						1885					1890			
Leu	Cys	Ala	Gly	Arg	Val	Glu	Ile	Tyr	His	Gly	Gly	Thr	Trp	Gly
1895						1900					1905			
Ala	Val	Cys	Asp	Asp	Ser	Trp	Thr	Ile	Gln	Glu	Ala	Glu	Val	Val
1910						1915					1920			
Cys	Arg	Gln	Leu	Gly	Cys	Gly	Arg	Ala	Val	Ser	Ala	Leu	Gly	Asn
1925						1930					1935			
Ala	Tyr	Phe	Gly	Ser	Gly	Ser	Gly	Pro	Ile	Thr	Leu	Asp	Asp	Val
1940						1945					1950			
Glu	Cys	Ser	Gly	Thr	Glu	Ser	Thr	Leu	Trp	Gln	Cys	Arg	Asn	Arg
1955						1960					1965			
Gly	Trp	Phe	Ser	His	Asn	Cys	Asn	His	Arg	Glu	Asp	Ala	Gly	Val
1970						1975					1980			
Ile	Cys	Ser	Gly	Asn	His	Leu	Ser	Thr	Pro	Ala	Pro	Phe	Leu	Asn
1985						1990					1995			
Ile	Thr	Arg	Pro	Asn	Asn	Tyr	Ser	Cys	Gly	Gly	Phe	Leu	Ser	Gln

2000	2005	2010
Pro Ser Gly Asp Phe Ser Ser 2015	Pro Phe Tyr Pro Gly Asn Tyr Pro 2020	2025
Asn Asn Ala Lys Cys Val Trp 2030	Asp Ile Glu Val Gln Asn Asn Tyr 2035	2040
Arg Val Thr Val Ile Phe Arg 2045	Asp Val Gln Leu Glu Gly Gly Cys 2050	2055
Asn Tyr Asp Tyr Ile Glu Val 2060	Phe Asp Gly Pro Tyr Arg Ser Ser 2065	2070
Pro Leu Ile Ala Arg Val Cys 2075	Asp Gly Ala Arg Gly Ser Phe Thr 2080	2085
Ser Ser Ser Asn Phe Met Ser 2090	Ile Arg Phe Ile Ser Asp His Ser 2095	2100
Ile Thr Arg Arg Gly Phe Arg 2105	Ala Glu Tyr Tyr Ser Ser Pro Ser 2110	2115
Asn Asp Ser Thr Asn Leu Leu 2120	Cys Leu Pro Asn His Met Gln Ala 2125	2130
Ser Val Ser Arg Ser Tyr Leu 2135	Gln Ser Leu Gly Phe Ser Ala Ser 2140	2145
Asp Leu Val Ile Ser Thr Trp 2150	Asn Gly Tyr Tyr Glu Cys Arg Pro 2155	2160
Gln Ile Thr Pro Asn Leu Val 2165	Ile Phe Thr Ile Pro Tyr Ser Gly 2170	2175
Cys Gly Thr Phe Lys Gln Ala 2180	Asp Asn Asp Thr Ile Asp Tyr Ser 2185	2190
Asn Leu Leu Thr Ala Ala Val 2195	Ser Gly Gly Ile Ile Lys Arg Arg 2200	2205
Thr Asp Leu Arg Ile His Val 2210	Ser Cys Arg Met Leu Gln Asn Thr 2215	2220

Trp Val Asp Thr Met Tyr Ile Ala Asn Asp Thr Ile His Val Ala
 2225 2230 2235

Asn Asn Thr Ile Gln Val Glu Glu Val Gln Tyr Gly Asn Phe Asp
 2240 2245 2250

Val Asn Ile Ser Phe Tyr Thr Ser Ser Ser Phe Leu Tyr Pro Val
 2255 2260 2265

Thr Ser Arg Pro Tyr Tyr Val Asp Leu Asn Gln Asp Leu Tyr Val
 2270 2275 2280

Gln Ala Glu Ile Leu His Ser Asp Ala Val Leu Thr Leu Phe Val
 2285 2290 2295

Asp Thr Cys Val Ala Ser Pro Tyr Ser Asn Asp Phe Thr Ser Leu
 2300 2305 2310

Thr Tyr Asp Leu Ile Arg Ser Gly Cys Val Arg Asp Asp Thr Tyr
 2315 2320 2325

Gly Pro Tyr Ser Ser Pro Ser Leu Arg Ile Ala Arg Phe Arg Phe
 2330 2335 2340

Arg Ala Phe His Phe Leu Asn Arg Phe Pro Ser Val Tyr Leu Arg
 2345 2350 2355

Cys Lys Met Val Val Cys Arg Ala Tyr Asp Pro Ser Ser Arg Cys
 2360 2365 2370

Tyr Arg Gly Cys Val Leu Arg Ser Lys Arg Asp Val Gly Ser Tyr
 2375 2380 2385

Gln Glu Lys Val Asp Val Val Leu Gly Pro Ile Gln Leu Gln Thr
 2390 2395 2400

Pro Pro Arg Arg Glu Glu Glu Pro Arg
 2405 2410

<210> 67
 <211> 2413
 <212> PRT
 <213> Homo sapiens

<400> 67

Met Gly Ile Ser Thr Val Ile Leu Glu Met Cys Leu Leu Trp Gly Gln
1 5 10 15

Val Leu Ser Thr Gly Gly Trp Ile Pro Arg Thr Thr Asp Tyr Ala Ser
20 25 30

Leu Ile Pro Ser Glu Val Pro Leu Asp Gln Thr Val Ala Glu Gly Ser
35 40 45

Pro Phe Pro Ser Glu Ser Thr Leu Glu Ser Thr Ala Ala Glu Gly Ser
50 55 60

Pro Ile Ser Leu Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
65 70 75 80

Leu Ile Pro Ser Glu Ser Thr Leu Glu Ser Thr Val Ala Glu Gly Ser
85 90 95

Asp Ser Gly Leu Ala Leu Arg Leu Val Asn Gly Asp Gly Arg Cys Gln
100 105 110

Gly Arg Val Glu Ile Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp
115 120 125

Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly
130 135 140

Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Trp Phe Gly Gln Gly
145 150 155 160

Ser Gly Pro Ile Ala Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser
165 170 175

Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
180 185 190

His Gly Glu Asp Ala Gly Val Ile Cys Ser Ala Ala Gln Pro Gln Ser
195 200 205

Thr Leu Arg Pro Glu Ser Trp Pro Val Arg Ile Ser Pro Pro Val Pro
210 215 220

Thr Glu Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 225 230 235 240

Asp Arg Cys Arg Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
 245 250 255

Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys
 260 265 270

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln
 275 280 285

Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
 290 295 300

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Thr
 305 310 315 320

His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Pro
 325 330 335

Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala
 340 345 350

Ser Thr Ala Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly
 355 360 365

Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp
 370 375 380

Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala Asn Val Val
 385 390 395 400

Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro Gly Asn Ala
 405 410 415

Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys
 420 425 430

Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu
 435 440 445

Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala
 450 455 460

Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro Thr Ile Thr
 465 470 475 480

Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu
 485 490 495

Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg
 500 505 510

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala
 515 520 525

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Leu Ala Pro
 530 535 540

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
 545 550 555 560

Val Arg Cys Ser Gly Asn Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
 565 570 575

Gly Trp Leu Ser His Asn Cys Gly His Ser Glu Asp Ala Gly Val Ile
 580 585 590

Cys Ser Gly Pro Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 595 600 605

Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp Gly
 610 615 620

Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn Val Val Cys
 625 630 635 640

Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Arg
 645 650 655

Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser
 660 665 670

Gly His Glu Ser Tyr Leu Trp Ser Cys Pro Asn Asn Gly Trp Leu Ser
 675 680 685

His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ala
690 695 700

Gln Ser Arg Ser Thr Pro Arg Pro Asp Thr Leu Ser Thr Ile Thr Leu
705 710 715 720

Pro Pro Ser Thr Val Gly Ser Glu Ser Ser Leu Thr Leu Arg Leu Val
725 730 735

Asn Gly Ser Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly
740 745 750

Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Asn Asp Ala Asn
755 760 765

Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly
770 775 780

Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val
785 790 795 800

Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly
805 810 815

Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys
820 825 830

Ser Val Ser Gln Ser Arg Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr
835 840 845

Ser His Ala Ser Thr Ala Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu
850 855 860

Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg
865 870 875 880

Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Thr Ser Asp Ala
885 890 895

Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser Ala Pro
900 905 910

Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp
915 920 925

Val Arg Cys Ser Gly Tyr Glu Ser Tyr Leu Trp Ser Cys Pro His Asn
 930 935 940

Gly Trp Leu Ser His Asn Cys Gln His Ser Glu Asp Ala Gly Val Ile
 945 950 955 960

Cys Ser Ala Ala His Ser Trp Ser Thr Pro Ser Pro Asp Thr Leu Pro
 965 970 975

Thr Ile Thr Leu Pro Ala Ser Thr Val Gly Ser Glu Ser Ser Leu Ala
 980 985 990

Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val
 995 1000 1005

Leu Tyr Gln Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp
 1010 1015 1020

Thr Asn Asp Ala Asn Val Val Cys Arg Gln Pro Gly Cys Gly Trp
 1025 1030 1035

Ala Met Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly
 1040 1045 1050

Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser Tyr
 1055 1060 1065

Pro Trp Ser Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly
 1070 1075 1080

His Ser Glu Asp Ala Gly Val Ile Cys Ser Ala Ser Gln Ser Arg
 1085 1090 1095

Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His Ala Ser Thr
 1100 1105 1110

Ala Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val Asn Gly Gly
 1115 1120 1125

Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg Gly Ser Trp
 1130 1135 1140

Gly Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val	1145	1150	1155
Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly	1160	1165	1170
Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp	1175	1180	1185
Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser Cys Pro His	1190	1195	1200
Asn Gly Trp Leu Ser His Asn Cys Gly His His Glu Asp Ala Gly	1205	1210	1215
Val Ile Cys Ser Ala Ser Gln Ser Gln Pro Thr Pro Ser Pro Asp	1220	1225	1230
Thr Trp Pro Thr Ser His Ala Ser Thr Ala Gly Ser Glu Ser Ser	1235	1240	1245
Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys Gln Gly Arg	1250	1255	1260
Val Glu Val Leu Tyr Arg Gly Ser Trp Gly Thr Val Cys Asp Asp	1265	1270	1275
Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg Gln Leu Gly	1280	1285	1290
Cys Gly Trp Ala Thr Ser Ala Pro Gly Asn Ala Arg Phe Gly Gln	1295	1300	1305
Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys Ser Gly His	1310	1315	1320
Glu Ser Tyr Leu Trp Ser Cys Pro His Asn Gly Trp Leu Ser His	1325	1330	1335
Asn Cys Gly His His Glu Asp Ala Gly Val Ile Cys Ser Ala Ser	1340	1345	1350
Gln Ser Gln Pro Thr Pro Ser Pro Asp Thr Trp Pro Thr Ser His	1355	1360	1365

Ala Ser Thr Ala Gly Ser Glu Ser Ser Leu Ala Leu Arg Leu Val	1370	1375	1380
Asn Gly Gly Asp Arg Cys Gln Gly Arg Val Glu Val Leu Tyr Arg	1385	1390	1395
Gly Ser Trp Gly Thr Val Cys Asp Asp Tyr Trp Asp Thr Asn Asp	1400	1405	1410
Ala Asn Val Val Cys Arg Gln Leu Gly Cys Gly Trp Ala Thr Ser	1415	1420	1425
Ala Pro Gly Asn Ala Arg Phe Gly Gln Gly Ser Gly Pro Ile Val	1430	1435	1440
Leu Asp Asp Val Arg Cys Ser Gly His Glu Ser Tyr Leu Trp Ser	1445	1450	1455
Cys Pro His Asn Gly Trp Leu Ser His Asn Cys Gly His His Glu	1460	1465	1470
Asp Ala Gly Val Ile Cys Ser Ala Ser Gln Ser Gln Pro Thr Pro	1475	1480	1485
Ser Pro Asp Thr Trp Pro Thr Ser Arg Ala Ser Thr Ala Gly Ser	1490	1495	1500
Glu Ser Thr Leu Ala Leu Arg Leu Val Asn Gly Gly Asp Arg Cys	1505	1510	1515
Arg Gly Arg Val Glu Val Leu Tyr Gln Gly Ser Trp Gly Thr Val	1520	1525	1530
Cys Asp Asp Tyr Trp Asp Thr Asn Asp Ala Asn Val Val Cys Arg	1535	1540	1545
Gln Leu Gly Cys Gly Trp Ala Met Ser Ala Pro Gly Asn Ala Gln	1550	1555	1560
Phe Gly Gln Gly Ser Gly Pro Ile Val Leu Asp Asp Val Arg Cys	1565	1570	1575

Ser	Gly	His	Glu	Ser	Tyr	Leu	Trp	Ser	Cys	Pro	His	Asn	Gly	Trp
1580						1585					1590			
Leu	Ser	His	Asn	Cys	Gly	His	His	Glu	Asp	Ala	Gly	Val	Ile	Cys
1595						1600					1605			
Ser	Ala	Ala	Gln	Ser	Gln	Ser	Thr	Pro	Arg	Pro	Asp	Thr	Trp	Leu
1610						1615					1620			
Thr	Thr	Asn	Leu	Pro	Ala	Leu	Thr	Val	Gly	Ser	Glu	Ser	Ser	Leu
1625						1630					1635			
Ala	Leu	Arg	Leu	Val	Asn	Gly	Gly	Asp	Arg	Cys	Arg	Gly	Arg	Val
1640						1645					1650			
Glu	Val	Leu	Tyr	Arg	Gly	Ser	Trp	Gly	Thr	Val	Cys	Asp	Asp	Ser
1655						1660					1665			
Trp	Asp	Thr	Asn	Asp	Ala	Asn	Val	Val	Cys	Arg	Gln	Leu	Gly	Cys
1670						1675					1680			
Gly	Trp	Ala	Met	Ser	Ala	Pro	Gly	Asn	Ala	Arg	Phe	Gly	Gln	Gly
1685						1690					1695			
Ser	Gly	Pro	Ile	Val	Leu	Asp	Asp	Val	Arg	Cys	Ser	Gly	Asn	Glu
1700						1705					1710			
Ser	Tyr	Leu	Trp	Ser	Cys	Pro	His	Lys	Gly	Trp	Leu	Thr	His	Asn
1715						1720					1725			
Cys	Gly	His	His	Glu	Asp	Ala	Gly	Val	Ile	Cys	Ser	Ala	Thr	Gln
1730						1735					1740			
Ile	Asn	Ser	Thr	Thr	Thr	Asp	Trp	Trp	His	Pro	Thr	Thr	Thr	Thr
1745						1750					1755			
Thr	Ala	Arg	Pro	Ser	Ser	Asn	Cys	Gly	Gly	Phe	Leu	Phe	Tyr	Ala
1760						1765					1770			
Ser	Gly	Thr	Phe	Ser	Ser	Pro	Ser	Tyr	Pro	Ala	Tyr	Tyr	Pro	Asn
1775						1780					1785			
Asn	Ala	Lys	Cys	Val	Trp	Glu	Ile	Glu	Val	Asn	Ser	Gly	Tyr	Arg
1790						1795					1800			

Ile	Asn	Leu	Gly	Phe	Ser	Asn	Leu	Lys	Leu	Glu	Ala	His	His	Asn
1805						1810					1815			
Cys	Ser	Phe	Asp	Tyr	Val	Glu	Ile	Phe	Asp	Gly	Ser	Leu	Asn	Ser
1820						1825					1830			
Ser	Leu	Leu	Leu	Gly	Lys	Ile	Cys	Asn	Asp	Thr	Arg	Gln	Ile	Phe
1835						1840					1845			
Thr	Ser	Ser	Tyr	Asn	Arg	Met	Thr	Ile	His	Phe	Arg	Ser	Asp	Ile
1850						1855					1860			
Ser	Phe	Gln	Asn	Thr	Gly	Phe	Leu	Ala	Trp	Tyr	Asn	Ser	Phe	Pro
1865						1870					1875			
Ser	Asp	Ala	Thr	Leu	Arg	Leu	Val	Asn	Leu	Asn	Ser	Ser	Tyr	Gly
1880						1885					1890			
Leu	Cys	Ala	Gly	Arg	Val	Glu	Ile	Tyr	His	Gly	Gly	Thr	Trp	Gly
1895						1900					1905			
Thr	Val	Cys	Asp	Asp	Ser	Trp	Thr	Ile	Gln	Glu	Ala	Glu	Val	Val
1910						1915					1920			
Cys	Arg	Gln	Leu	Gly	Cys	Gly	Arg	Ala	Val	Ser	Ala	Leu	Gly	Asn
1925						1930					1935			
Ala	Tyr	Phe	Gly	Ser	Gly	Ser	Gly	Pro	Ile	Thr	Leu	Asp	Asp	Val
1940						1945					1950			
Glu	Cys	Ser	Gly	Thr	Glu	Ser	Thr	Leu	Trp	Gln	Cys	Arg	Asn	Arg
1955						1960					1965			
Gly	Trp	Phe	Ser	His	Asn	Cys	Asn	His	Arg	Glu	Asp	Ala	Gly	Val
1970						1975					1980			
Ile	Cys	Ser	Gly	Asn	His	Leu	Ser	Thr	Pro	Ala	Pro	Phe	Leu	Asn
1985						1990					1995			
Ile	Thr	Arg	Pro	Asn	Thr	Asp	Tyr	Ser	Cys	Gly	Gly	Phe	Leu	Ser
2000						2005					2010			

Gln Pro	Ser Gly Asp Phe Ser	Ser Pro Phe Tyr Pro	Gly Asn Tyr
2015	2020	2025	
Pro Asn	Asn Ala Lys Cys Val	Trp Asp Ile Glu Val	Gln Asn Asn
2030	2035	2040	
Tyr Arg	Val Thr Val Ile Phe	Arg Asp Val Gln Leu	Glu Gly Gly
2045	2050	2055	
Cys Asn	Tyr Asp Tyr Ile Glu	Val Phe Asp Gly Pro	Tyr Arg Ser
2060	2065	2070	
Ser Pro	Leu Ile Ala Arg Val	Cys Asp Gly Ala Arg	Gly Ser Phe
2075	2080	2085	
Thr Ser	Ser Ser Asn Phe Met	Ser Ile Arg Phe Ile	Ser Asp His
2090	2095	2100	
Ser Ile	Thr Arg Arg Gly Phe	Arg Ala Glu Tyr Tyr	Ser Ser Pro
2105	2110	2115	
Ser Asn	Asp Ser Thr Asn Leu	Leu Cys Leu Pro Asn	His Met Gln
2120	2125	2130	
Ala Ser	Val Ser Arg Ser Tyr	Leu Gln Ser Leu Gly	Phe Ser Ala
2135	2140	2145	
Ser Asp	Leu Val Ile Ser Thr	Trp Asn Gly Tyr Tyr	Glu Cys Arg
2150	2155	2160	
Pro Gln	Ile Thr Pro Asn Leu	Val Ile Phe Thr Ile	Pro Tyr Ser
2165	2170	2175	
Gly Cys	Gly Thr Phe Lys Gln	Ala Asp Asn Asp Thr	Ile Asp Tyr
2180	2185	2190	
Ser Asn	Phe Leu Thr Ala Ala	Val Ser Gly Gly Ile	Ile Lys Arg
2195	2200	2205	
Arg Thr	Asp Leu Arg Ile His	Val Ser Cys Arg Met	Leu Gln Asn
2210	2215	2220	
Thr Trp	Val Asp Thr Met Tyr	Ile Ala Asn Asp Thr	Ile His Val
2225	2230	2235	

Ala Asn Asn Thr Ile Gln Val Glu Glu Val Gln Tyr Gly Asn Phe
 2240 2245 2250

Asp Val Asn Ile Ser Phe Tyr Thr Ser Ser Ser Phe Leu Tyr Pro
 2255 2260 2265

Val Thr Ser Arg Pro Tyr Tyr Val Asp Leu Asn Gln Asp Leu Tyr
 2270 2275 2280

Val Gln Ala Glu Ile Leu His Ser Asp Ala Val Leu Thr Leu Phe
 2285 2290 2295

Val Asp Thr Cys Val Ala Ser Pro Tyr Ser Asn Asp Phe Thr Ser
 2300 2305 2310

Leu Thr Tyr Asp Leu Ile Arg Ser Gly Cys Val Arg Asp Asp Thr
 2315 2320 2325

Tyr Gly Pro Tyr Ser Ser Pro Ser Leu Arg Ile Ala Arg Phe Arg
 2330 2335 2340

Phe Arg Ala Phe His Phe Leu Asn Arg Phe Pro Ser Val Tyr Leu
 2345 2350 2355

Arg Cys Lys Met Val Val Cys Arg Ala Tyr Asp Pro Ser Ser Arg
 2360 2365 2370

Cys Tyr Arg Gly Cys Val Leu Arg Ser Lys Arg Asp Val Gly Ser
 2375 2380 2385

Tyr Gln Glu Lys Val Asp Val Val Leu Gly Pro Ile Gln Leu Gln
 2390 2395 2400

Thr Pro Pro Arg Arg Glu Glu Glu Pro Arg
 2405 2410

<210> 68
 <211> 374
 <212> PRT
 <213> Mus musculus

<400> 68

Met Leu Pro Phe Leu Ser Met Leu Val Leu Leu Val Gln Pro Leu Gly

1	5	10	15
Asn Leu Gly Ala Glu Met Lys Ser Leu Ser Gln Arg Ser Val Pro Asn	20	25	30
Thr Cys Thr Leu Val Met Cys Ser Pro Thr Glu Asn Gly Leu Pro Gly	35	40	45
Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly Asp	50	55	60
Pro Gly Leu Pro Gly Pro Met Gly Leu Ser Gly Leu Gln Gly Pro Thr	65	70	75
Gly Pro Val Gly Pro Lys Gly Glu Asn Gly Ser Ala Gly Glu Pro Gly	85	90	95
Pro Lys Gly Glu Arg Gly Leu Ser Gly Pro Pro Gly Leu Pro Gly Ile	100	105	110
Pro Gly Pro Ala Gly Lys Glu Gly Pro Ser Gly Lys Gln Gly Asn Ile	115	120	125
Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys Gly	130	135	140
Glu Val Gly Ala Pro Gly Met Gln Gly Ser Thr Gly Ala Lys Gly Ser	145	150	155
Thr Gly Pro Lys Gly Glu Arg Gly Ala Pro Gly Val Gln Gly Ala Pro	165	170	175
Gly Asn Ala Gly Ala Ala Gly Pro Ala Gly Pro Ala Gly Pro Gln Gly	180	185	190
Ala Pro Gly Ser Arg Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Val	195	200	205
Pro Gly Asp Arg Gly Ile Lys Gly Glu Ser Gly Leu Pro Asp Ser Ala	210	215	220
Ala Leu Arg Gln Gln Met Glu Ala Leu Lys Gly Lys Leu Gln Arg Leu	225	230	235
			240

Glu Val Ala Phe Ser His Tyr Gln Lys Ala Ala Leu Phe Pro Asp Gly
245 250 255

Arg Ser Val Gly Asp Lys Ile Phe Arg Thr Ala Asp Ser Glu Lys Pro
260 265 270

Phe Glu Asp Ala Gln Glu Met Cys Lys Gln Ala Gly Gly Gln Leu Ala
275 280 285

Ser Pro Arg Ser Ala Thr Glu Asn Ala Ala Ile Gln Gln Leu Ile Thr
290 295 300

Ala His Asn Lys Ala Ala Phe Leu Ser Met Thr Asp Val Gly Thr Glu
305 310 315 320

Gly Lys Phe Thr Tyr Pro Thr Gly Glu Pro Leu Val Tyr Ser Asn Trp
325 330 335

Ala Pro Gly Glu Pro Asn Asn Asn Gly Gly Ala Glu Asn Cys Val Glu
340 345 350

Ile Phe Thr Asn Gly Gln Trp Asn Asp Lys Ala Cys Gly Glu Gln Arg
355 360 365

Leu Val Ile Cys Glu Phe
370

<210> 69
<211> 35
<212> PRT
<213> Canis familiaris

<400> 69

Leu Gly Ile Pro Cys Phe Pro Ser Ser Leu Lys Arg Leu Leu Ile Ile
1 5 10 15

Val Val Val Ile Val Leu Val Val Val Val Ile Val Gly Ala Leu Leu
20 25 30

Met Gly Leu
35

<210> 70
<211> 34

<212> PRT
<213> Bos taurus

<400> 70

Leu Ile Pro Cys Cys Pro Val Asn Ile Lys Arg Leu Leu Ile Val Val
1 5 10 15

Val Val Val Val Leu Leu Val Val Val Ile Val Gly Ala Leu Leu Met
20 25 30

Gly Leu

<210> 71
<211> 35
<212> PRT
<213> Homo sapiens

<400> 71

Gly Gln Ser Ile Thr Phe Asp Ala Gly Lys Glu Gln Cys Val Glu Met
1 5 10 15

Tyr Thr Asp Gly Gln Trp Asn Asp Arg Asn Cys Leu Tyr Leu Thr Ile
20 25 30

Cys Glu Phe
35

<210> 72
<211> 370
<212> PRT
<213> Oryctolagus cuniculus

<400> 72

Met Ala Lys Ser His Leu Pro Pro Trp Leu Leu Leu Leu Leu Pro
1 5 10 15

Thr Leu Cys Gly Pro Gly Thr Ala Val Trp Ala Thr Ser Pro Leu Ala
20 25 30

Cys Ala Gln Gly Pro Glu Phe Trp Cys Gln Ser Leu Glu Gln Ala Leu
35 40 45

Gln Cys Lys Ala Leu Gly His Cys Leu Gln Glu Val Trp Gly His Val
50 55 60

Gly Ala Asp Asp Leu Cys Gln Glu Cys Gln Asp Ile Val Asn Ile Leu
 65 70 75 80

Thr Lys Met Thr Lys Glu Ala Ile Phe Gln Asp Thr Ile Arg Lys Phe
 85 90 95

Leu Glu His Glu Cys Asp Val Leu Pro Leu Lys Leu Leu Val Pro Gln
 100 105 110

Cys His His Val Leu Asp Val Tyr Phe Pro Leu Thr Ile Thr Tyr Phe
 115 120 125

Leu Ser Gln Ile Asn Ala Lys Ala Ile Cys Gln His Leu Gly Leu Cys
 130 135 140

Gln Pro Gly Ser Pro Glu Pro Pro Leu Asp Pro Leu Pro Asp Lys Leu
 145 150 155 160

Val Leu Pro Thr Leu Leu Gly Ala Leu Pro Ala Lys Pro Gly Pro His
 165 170 175

Thr Gln Asp Leu Ser Ala Gln Arg Phe Pro Ile Pro Leu Pro Leu Cys
 180 185 190

Trp Leu Cys Arg Thr Leu Leu Lys Arg Ile Gln Ala Met Ile Pro Lys
 195 200 205

Gly Val Leu Ala Met Ala Val Ala Gln Val Cys His Val Val Pro Leu
 210 215 220

Val Val Gly Gly Ile Cys Gln Cys Leu Ala Glu Arg Tyr Thr Val Ile
 225 230 235 240

Leu Leu Glu Val Leu Leu Gly His Val Leu Pro Gln Leu Val Cys Gly
 245 250 255

Leu Val Leu Arg Cys Ser Ser Val Asp Ser Ile Gly Gln Val Pro Pro
 260 265 270

Thr Leu Glu Ala Leu Pro Gly Glu Trp Leu Pro Gln Asp Pro Glu Cys
 275 280 285

Pro Leu Cys Met Ser Val Thr Thr Gln Ala Arg Asn Ile Ser Glu Gln

290 295 300
 Thr Arg Pro Gln Ala Val Tyr His Ala Cys Leu Ser Ser Gln Leu Asp
 305 310 315 320
 Lys Gln Glu Cys Glu Gln Phe Val Glu Leu His Thr Pro Gln Leu Leu
 325 330 335
 Ser Leu Leu Ser Arg Gly Trp Asp Ala Arg Ala Ile Cys Gln Ala Leu
 340 345 350
 Gly Ala Cys Val Ala Thr Leu Ser Pro Leu Gln Cys Ile Gln Ser Pro
 355 360 365
 His Phe
 370

<210> 73
 <211> 247
 <212> PRT
 <213> *Oryctolagus cuniculus*

<400> 73

Met Leu Leu Leu Ser Leu Ala Leu Thr Leu Ile Ser Ala Pro Ala Ser
 1 5 10 15

Asp Thr Cys Asp Thr Lys Asp Val Cys Ile Gly Ser Pro Gly Ile Pro
 20 25 30

Gly Thr Pro Gly Ser His Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
 35 40 45

Val Lys Gly Asp Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Gly
 50 55 60

Met Pro Gly Leu Pro Gly Arg Asp Gly Leu Ile Gly Ala Pro Gly Val
 65 70 75 80

Pro Gly Glu Arg Gly Asp Lys Gly Glu Pro Gly Glu Arg Gly Pro Pro
 85 90 95

Gly Leu Pro Ala Tyr Leu Asp Glu Glu Leu Gln Ala Thr Leu His Glu
 100 105 110

Leu Arg His His Ala Leu Gln Ser Ile Gly Val Leu Ser Leu Gln Gly
 115 120 125

Ser Met Lys Ala Val Gly Glu Lys Ile Phe Ser Thr Asn Gly Gln Ser
 130 135 140

Val Asn Phe Asp Ala Ile Arg Glu Val Cys Ala Arg Ala Gly Gly Arg
 145 150 155 160

Ile Ala Ile Val Lys Glu Val Pro Arg Ser Leu Glu Glu Asn Glu Ala
 165 170 175

Ile Ala Ser Arg Asn Thr Tyr Ala Tyr Leu Gly Leu Ala Glu Gly Pro
 180 185 190

Thr Ala Gly Asp Phe Tyr Tyr Leu Asp Gly Asp Pro Val Asn Tyr Thr
 195 200 205

Asn Trp Tyr Pro Gly Glu Pro Arg Gly Gln Gly Arg Glu Lys Cys Val
 210 215 220

Glu Met Tyr Thr Asp Gly Lys Trp Asn Asp Lys Asn Cys Leu Gln Tyr
 225 230 235 240

Arg Leu Val Ile Cys Glu Phe
 245

<210> 74
 <211> 369
 <212> PRT
 <213> Bos taurus

<400> 74

Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Leu Thr Gln Pro Trp
 1 5 10 15

Arg Ser Leu Gly Ala Glu Met Lys Ile Tyr Ser Gln Lys Thr Met Ala
 20 25 30

Asn Ala Cys Thr Leu Val Met Cys Ser Pro Pro Glu Asp Gly Leu Pro
 35 40 45

Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
 50 55 60

Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Met Pro Gly Pro
65 70 75 80

Ala Gly Pro Ile Gly Leu Lys Gly Asp Asn Gly Ser Ala Gly Glu Pro
85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Pro Gly Pro Pro Gly Met Pro Gly
100 105 110

Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro
115 120 125

Pro Gly Thr Pro Gly Pro Lys Gly Asp Thr Gly Pro Lys Gly Gly Val
130 135 140

Gly Ala Pro Gly Ile Gln Gly Ser Pro Gly Pro Ala Gly Leu Lys Gly
145 150 155 160

Glu Arg Gly Ala Pro Gly Glu Pro Gly Ala Pro Gly Arg Ala Gly Ala
165 170 175

Pro Gly Pro Ala Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg
180 185 190

Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Thr Pro Gly Glu Arg Gly
195 200 205

Ala Lys Gly Glu Ser Gly Leu Ala Glu Val Asn Ala Leu Arg Gln Arg
210 215 220

Val Gly Ile Leu Glu Gly Gln Leu Gln Arg Leu Gln Asn Ala Phe Ser
225 230 235 240

Gln Tyr Lys Lys Ala Met Leu Phe Pro Asn Gly Arg Ser Val Gly Glu
245 250 255

Lys Ile Phe Lys Thr Val Gly Ser Glu Lys Thr Phe Gln Asp Ala Gln
260 265 270

Gln Ile Cys Thr Gln Ala Gly Gly Gln Leu Pro Ser Pro Arg Ser Gly
275 280 285

Ala Glu Asn Glu Ala Leu Thr Gln Leu Ala Thr Ala Gln Asn Lys Ala

290

295

300

Ala Phe Leu Ser Met Ser Asp Thr Arg Lys Glu Gly Thr Phe Ile Tyr
305 310 315 320

Pro Thr Gly Glu Pro Leu Val Tyr Ser Asn Trp Ala Pro Gln Glu Pro
325 330 335

Asn Asn Asp Gly Gly Ser Glu Asn Cys Val Glu Ile Phe Pro Asn Gly
340 345 350

Lys Trp Asn Asp Lys Val Cys Gly Glu Gln Arg Leu Val Ile Cys Glu
355 360 365

Phe

<210> 75
<211> 301
<212> PRT
<213> Bos taurus

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Unknown

<400> 75

Glu Glu Met Asp Val Tyr Xaa Glu Lys Thr Leu Thr Asp Pro Cys Thr
1 5 10 15

Leu Val Val Cys Ala Pro Pro Ala Asp Ser Leu Arg Gly His Asp Gly
20 25 30

Arg Asp Gly Lys Glu Gly Pro Gln Gly Glu Lys Gly Asp Pro Gly Pro
35 40 45

Pro Gly Met Pro Gly Pro Ala Gly Arg Glu Gly Pro Ser Gly Arg Gln
50 55 60

Gly Ser Met Gly Pro Pro Gly Thr Pro Gly Pro Lys Gly Glu Pro Gly
65 70 75 80

Pro Glu Gly Gly Val Gly Ala Pro Gly Met Pro Gly Ser Pro Gly Pro
85 90 95

Ala Gly Leu Lys Gly Glu Arg Gly Ala Pro Gly Pro Gly Gly Ala Ile
100 105 110

Gly Pro Gln Gly Pro Ser Gly Ala Met Gly Pro Pro Gly Leu Lys Gly
115 120 125

Asp Arg Gly Asp Pro Gly Glu Lys Gly Ala Arg Gly Glu Thr Ser Val
130 135 140

Leu Glu Val Asp Thr Leu Arg Gln Arg Met Arg Asn Leu Glu Gly Glu
145 150 155 160

Val Gln Arg Leu Gln Asn Ile Val Thr Gln Tyr Arg Lys Ala Val Leu
165 170 175

Phe Pro Asp Gly Gln Ala Val Gly Glu Lys Ile Phe Lys Thr Ala Gly
180 185 190

Ala Val Lys Ser Tyr Ser Asp Ala Glu Gln Leu Cys Arg Glu Ala Lys
195 200 205

Gly Gln Leu Ala Ser Pro Arg Ser Ser Ala Glu Asn Glu Ala Val Thr
210 215 220

Gln Leu Val Arg Ala Lys Asn Lys His Ala Tyr Leu Ser Met Asn Asp
225 230 235 240

Ile Ser Lys Glu Gly Lys Phe Thr Tyr Pro Thr Gly Gly Ser Leu Asp
245 250 255

Tyr Ser Asn Trp Ala Pro Gly Glu Pro Gly Asn Arg Ala Lys Asp Glu
260 265 270

Gly Pro Glu Asn Cys Leu Glu Ile Tyr Ser Asp Gly Asn Trp Asn Asp
275 280 285

Ile Glu Cys Arg Glu Glu Arg Leu Val Ile Cys Glu Phe
290 295 300

<210> 76
<211> 375
<212> PRT
<213> Homo sapiens

<400> 76

Met Leu Leu Phe Leu Leu Ser Ala Leu Val Leu Leu Thr Gln Pro Leu
1 5 10 15

Gly Tyr Leu Glu Ala Glu Met Lys Thr Tyr Ser His Arg Thr Thr Pro
20 25 30

Ser Ala Cys Thr Leu Val Met Cys Ser Ser Val Glu Ser Gly Leu Pro
35 40 45

Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
50 55 60

Asp Pro Gly Leu Pro Gly Ala Ala Gly Gln Ala Gly Met Pro Gly Gln
65 70 75 80

Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Val Gly Glu Pro
85 90 95

Gly Pro Lys Gly Asp Thr Gly Pro Ser Gly Pro Pro Gly Pro Pro Gly
100 105 110

Val Pro Gly Pro Ala Gly Arg Glu Gly Pro Leu Gly Lys Gln Gly Asn
115 120 125

Ile Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys
130 135 140

Gly Glu Val Gly Ala Pro Gly Met Gln Gly Ser Ala Gly Ala Arg Gly
145 150 155 160

Leu Ala Gly Pro Lys Gly Glu Arg Gly Val Pro Gly Glu Arg Gly Val
165 170 175

Pro Gly Asn Ala Gly Ala Ala Gly Ser Ala Gly Ala Met Gly Pro Gln
180 185 190

Gly Ser Pro Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Lys Gly
195 200 205

Ile Pro Gly Asp Lys Gly Ala Lys Gly Glu Ser Gly Leu Pro Asp Val
210 215 220

Ala Ser Leu Arg Gln Gln Val Glu Ala Leu Gln Gly Gln Val Gln His
 225 230 235 240

Leu Gln Ala Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn
 245 250 255

Gly Gln Ser Val Gly Glu Lys Ile Phe Lys Thr Ala Gly Phe Val Lys
 260 265 270

Pro Phe Thr Glu Ala Gln Leu Leu Cys Thr Gln Ala Gly Gly Gln Leu
 275 280 285

Ala Ser Pro Arg Ser Ala Ala Glu Asn Ala Ala Leu Gln Gln Leu Val
 290 295 300

Val Ala Lys Asn Glu Ala Ala Phe Leu Ser Met Thr Asp Ser Lys Thr
 305 310 315 320

Glu Gly Lys Phe Thr Tyr Pro Thr Gly Glu Ser Leu Val Tyr Ser Asn
 325 330 335

Trp Ala Pro Gly Glu Pro Asn Asp Asp Gly Gly Ser Glu Asp Cys Val
 340 345 350

Glu Ile Phe Thr Asn Gly Lys Trp Asn Asp Arg Ala Cys Gly Glu Lys
 355 360 365

Arg Leu Val Val Cys Glu Phe
 370 375

<210> 77
 <211> 194
 <212> PRT
 <213> Rattus norvegicus

<400> 77

Met Asp Met Gly Ser Lys Glu Val Leu Met Glu Ser Pro Pro Asp Tyr
 1 5 10 15

Ser Thr Gly Pro Arg Ser Gln Phe Arg Ile Pro Cys Cys Pro Val His
 20 25 30

Leu Lys Arg Leu Leu Ile Val Val Val Val Val Leu Val Val Val
 35 40 45

Val Ile Val Gly Ala Leu Leu Met Gly Leu His Met Ser Gln Lys His
 50 55 60

Thr Glu Met Val Leu Glu Met Ser Ile Gly Gly Ala Pro Glu Thr Gln
 65 70 75 80

Lys Arg Leu Ala Leu Ser Glu His Thr Asp Thr Ile Ala Thr Phe Ser
 85 90 95

Ile Gly Ser Thr Gly Ile Val Leu Tyr Asp Tyr Gln Arg Leu Leu Thr
 100 105 110

Ala Tyr Lys Pro Ala Pro Gly Thr Tyr Cys Tyr Ile Met Lys Met Ala
 115 120 125

Pro Glu Ser Ile Pro Ser Leu Glu Ala Leu Ala Arg Lys Phe Lys Asn
 130 135 140

Phe Gln Ala Lys Ser Ser Thr Pro Thr Ser Lys Leu Gly Gln Glu Glu
 145 150 155 160

Gly His Ser Ala Gly Ser Asp Ser Asp Ser Ser Gly Arg Asp Leu Ala
 165 170 175

Phe Leu Gly Leu Ala Val Ser Thr Leu Cys Gly Val Leu Pro Leu Tyr
 180 185 190

Tyr Ile

<210> 78
 <211> 247
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 78

Met Leu Leu Leu Ser Leu Ala Leu Thr Leu Ile Ser Ala Pro Ala Ser
 1 5 10 15

Asp Thr Cys Asp Thr Lys Asp Val Cys Ile Gly Ser Pro Gly Ile Pro
 20 25 30

Gly Thr Pro Gly Ser His Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly

35

40

45

Val Lys Gly Asp Pro Gly Pro Pro Ala Pro Trp Ala Pro Pro Gly Gly
50 55 60

Met Pro Gly Leu Pro Gly Arg Asp Gly Leu Ile Gly Ala Pro Gly Val
65 70 75 80

Pro Gly Glu Arg Gly Asp Lys Gly Glu Pro Gly Glu Arg Gly Pro Pro
85 90 95

Gly Leu Pro Ala Tyr Leu Asp Glu Glu Leu Gln Ala Thr Leu His Glu
100 105 110

Leu Arg His His Ala Leu Gln Ser Ile Gly Val Leu Ser Leu Gln Gly
115 120 125

Ser Met Lys Ala Val Gly Glu Lys Ile Phe Ser Thr Asn Gly Gln Ser
130 135 140

Val Asn Phe Asp Ala Ile Arg Glu Val Cys Ala Arg Ala Gly Gly Arg
145 150 155 160

Ile Ala Val Pro Arg Ser Leu Glu Glu Asn Glu Ala Ile Ala Ser Ile
165 170 175

Val Lys Glu Arg Asn Thr Tyr Ala Tyr Leu Gly Leu Ala Glu Gly Pro
180 185 190

Thr Ala Gly Asp Phe Tyr Tyr Leu Asp Gly Asp Pro Val Asn Tyr Thr
195 200 205

Asn Trp Tyr Pro Gly Glu Pro Arg Gly Gln Gly Arg Glu Lys Cys Val
210 215 220

Glu Met Tyr Thr Asp Gly Lys Trp Asn Asp Lys Asn Cys Leu Gln Tyr
225 230 235 240

Arg Leu Val Ile Cys Glu Phe
245

<210> 79
<211> 652
<212> PRT

<213> Homo sapiens

<400> 79

Met Ala Thr Ser Met Gly Leu Leu Leu Leu Leu Leu Leu Leu Thr
1 5 10 15

Gln Pro Gly Ala Gly Thr Gly Ala Asp Thr Glu Ala Val Val Cys Val
20 25 30

Gly Thr Ala Cys Tyr Thr Ala His Ser Gly Lys Leu Ser Ala Ala Glu
35 40 45

Ala Gln Asn His Cys Asn Gln Asn Gly Gly Asn Leu Ala Thr Val Lys
50 55 60

Ser Lys Glu Glu Ala Gln His Val Gln Arg Val Leu Ala Gln Leu Leu
65 70 75 80

Arg Arg Glu Ala Ala Leu Thr Ala Arg Met Ser Lys Phe Trp Ile Gly
85 90 95

Leu Gln Arg Glu Lys Gly Lys Cys Leu Asp Pro Ser Leu Pro Leu Lys
100 105 110

Gly Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Pro Tyr Ser Asn Trp
115 120 125

His Lys Glu Leu Arg Asn Ser Cys Ile Ser Lys Arg Cys Val Ser Leu
130 135 140

Leu Leu Asp Leu Ser Gln Pro Leu Leu Pro Ser Arg Leu Pro Lys Trp
145 150 155 160

Ser Glu Gly Pro Cys Gly Ser Pro Gly Ser Pro Gly Ser Asn Ile Glu
165 170 175

Gly Phe Val Cys Lys Phe Ser Phe Lys Gly Met Cys Arg Pro Leu Ala
180 185 190

Leu Gly Gly Pro Gly Gln Val Thr Tyr Thr Thr Pro Phe Gln Thr Thr
195 200 205

Ser Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Ala Ala Asn Val Ala
210 215 220

Cys Gly Glu Gly Asp Lys Asp Glu Thr Gln Ser His Tyr Phe Leu Cys
 225 230 235 240

Lys Glu Lys Ala Pro Asp Val Phe Asp Trp Gly Ser Ser Gly Pro Leu
 245 250 255

Cys Val Ser Pro Lys Tyr Gly Cys Asn Phe Asn Asn Gly Gly Cys His
 260 265 270

Gln Asp Cys Phe Glu Gly Gly Asp Gly Ser Phe Leu Cys Gly Cys Arg
 275 280 285

Pro Gly Phe Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn
 290 295 300

Pro Cys Ser Ser Ser Pro Cys Arg Gly Gly Ala Thr Cys Val Leu Gly
 305 310 315 320

Pro His Gly Lys Asn Tyr Thr Cys Arg Cys Pro Gln Gly Tyr Gln Leu
 325 330 335

Asp Ser Ser Gln Leu Asp Cys Val Asp Val Asp Glu Cys Gln Asp Ser
 340 345 350

Pro Cys Ala Gln Glu Cys Val Asn Thr Pro Gly Gly Phe Arg Cys Glu
 355 360 365

Cys Trp Val Gly Tyr Glu Pro Gly Gly Pro Gly Glu Gly Ala Cys Gln
 370 375 380

Asp Val Asp Glu Cys Ala Leu Gly Arg Ser Pro Cys Ala Gln Gly Cys
 385 390 395 400

Thr Asn Thr Asp Gly Ser Phe His Cys Ser Cys Glu Glu Gly Tyr Val
 405 410 415

Leu Ala Gly Glu Asp Gly Thr Gln Cys Gln Asp Val Asp Glu Cys Val
 420 425 430

Gly Pro Gly Gly Pro Leu Cys Asp Ser Leu Cys Phe Asn Thr Gln Gly
 435 440 445

Ser Phe His Cys Gly Cys Leu Pro Gly Trp Val Leu Ala Pro Asn Gly
450 455 460

Val Ser Cys Thr Met Gly Pro Val Ser Leu Gly Pro Pro Ser Gly Pro
465 470 475 480

Pro Asp Glu Glu Asp Lys Gly Glu Lys Glu Gly Ser Thr Val Pro Arg
485 490 495

Ala Ala Thr Ala Ser Pro Thr Arg Gly Pro Glu Gly Thr Pro Lys Ala
500 505 510

Thr Pro Thr Thr Ser Arg Pro Ser Leu Ser Ser Asp Ala Pro Ile Thr
515 520 525

Ser Ala Pro Leu Lys Met Leu Ala Pro Ser Gly Ser Pro Gly Val Trp
530 535 540

Arg Glu Pro Ser Ile His His Ala Thr Ala Ala Ser Gly Pro Gln Glu
545 550 555 560

Pro Ala Gly Gly Asp Ser Ser Val Ala Thr Gln Asn Asn Asp Gly Thr
565 570 575

Asp Gly Gln Lys Leu Leu Leu Phe Tyr Ile Leu Gly Thr Val Val Ala
580 585 590

Ile Leu Leu Leu Leu Ala Leu Ala Leu Gly Leu Leu Val Tyr Arg Lys
595 600 605

Arg Arg Ala Lys Arg Glu Glu Lys Lys Glu Lys Lys Pro Gln Asn Ala
610 615 620

Ala Asp Ser Tyr Ser Trp Val Pro Glu Arg Ala Glu Ser Arg Ala Met
625 630 635 640

Glu Asn Gln Tyr Ser Pro Thr Pro Gly Thr Asp Cys
645 650

<210> 80

<211> 644

<212> PRT

<213> Mus musculus

<400> 80

Met Ala Ile Ser Thr Gly Leu Phe Leu Leu Leu Gly Leu Leu Gly Gln
 1 5 10 15
 Pro Trp Ala Gly Ala Ala Ala Asp Ser Gln Ala Val Val Cys Glu Gly
 20 25 30
 Thr Ala Cys Tyr Thr Ala His Trp Gly Lys Leu Ser Ala Ala Glu Ala
 35 40 45
 Gln His Arg Cys Asn Glu Asn Gly Gly Asn Leu Ala Thr Val Lys Ser
 50 55 60
 Glu Glu Glu Ala Arg His Val Gln Gln Ala Leu Thr Gln Leu Leu Lys
 65 70 75 80
 Thr Lys Ala Pro Leu Glu Ala Lys Met Gly Lys Phe Trp Ile Gly Leu
 85 90 95
 Gln Arg Glu Lys Gly Asn Cys Thr Tyr His Asp Leu Pro Met Arg Gly
 100 105 110
 Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Ala Tyr Ser Asn Trp Tyr
 115 120 125
 Lys Ala Ser Lys Ser Ser Cys Ile Phe Lys Arg Cys Val Ser Leu Ile
 130 135 140
 Leu Asp Leu Ser Leu Thr Pro His Pro Ser His Leu Pro Lys Trp His
 145 150 155 160
 Glu Ser Pro Cys Gly Thr Pro Glu Ala Pro Gly Asn Ser Ile Glu Gly
 165 170 175
 Phe Leu Cys Lys Phe Asn Phe Lys Gly Met Cys Arg Pro Leu Ala Leu
 180 185 190
 Gly Gly Pro Gly Arg Val Thr Tyr Thr Thr Pro Phe Gln Ala Thr Thr
 195 200 205
 Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Val Ala Asn Val Ala Cys
 210 215 220
 Gly Asp Glu Ala Lys Ser Glu Thr His Tyr Phe Leu Cys Asn Glu Lys

225		230		235		240									
Thr	Pro	Gly	Ile	Phe	His	Trp	Gly	Ser	Ser	Gly	Pro	Leu	Cys	Val	Ser
			245						250					255	
Pro	Lys	Phe	Gly	Cys	Ser	Phe	Asn	Asn	Gly	Gly	Cys	Gln	Gln	Asp	Cys
			260					265					270		
Phe	Glu	Gly	Gly	Asp	Gly	Ser	Phe	Arg	Cys	Gly	Cys	Arg	Pro	Gly	Phe
		275					280					285			
Arg	Leu	Leu	Asp	Asp	Leu	Val	Thr	Cys	Ala	Ser	Arg	Asn	Pro	Cys	Ser
	290					295					300				
Ser	Asn	Pro	Cys	Thr	Gly	Gly	Gly	Met	Cys	His	Ser	Val	Pro	Leu	Ser
305					310					315					320
Glu	Asn	Tyr	Thr	Cys	Arg	Cys	Pro	Ser	Gly	Tyr	Gln	Leu	Asp	Ser	Ser
			325						330					335	
Gln	Val	His	Cys	Val	Asp	Ile	Asp	Glu	Cys	Gln	Asp	Ser	Pro	Cys	Ala
			340					345					350		
Gln	Asp	Cys	Val	Asn	Thr	Leu	Gly	Ser	Phe	His	Cys	Glu	Cys	Trp	Val
	355						360					365			
Gly	Tyr	Gln	Pro	Ser	Gly	Pro	Lys	Glu	Glu	Ala	Cys	Glu	Asp	Val	Asp
	370					375					380				
Glu	Cys	Ala	Ala	Ala	Asn	Ser	Pro	Cys	Ala	Gln	Gly	Cys	Ile	Asn	Thr
385					390					395					400
Asp	Gly	Ser	Phe	Tyr	Cys	Ser	Cys	Lys	Glu	Gly	Tyr	Ile	Val	Ser	Gly
			405						410					415	
Glu	Asp	Ser	Thr	Gln	Cys	Glu	Asp	Ile	Asp	Glu	Cys	Ser	Asp	Ala	Arg
			420					425					430		
Gly	Asn	Pro	Cys	Asp	Ser	Leu	Cys	Phe	Asn	Thr	Asp	Gly	Ser	Phe	Arg
		435					440					445			
Cys	Gly	Cys	Pro	Pro	Gly	Trp	Glu	Leu	Ala	Pro	Asn	Gly	Val	Phe	Cys
	450					455					460				

Ser Arg Gly Thr Val Phe Ser Glu Leu Pro Ala Arg Pro Pro Gln Lys
 465 470 475 480

Glu Asp Asn Asp Asp Arg Lys Glu Ser Thr Met Pro Pro Thr Glu Met
 485 490 495

Pro Ser Ser Pro Ser Gly Ser Lys Asp Val Ser Asn Arg Ala Gln Thr
 500 505 510

Thr Gly Leu Phe Val Gln Ser Asp Ile Pro Thr Ala Ser Val Pro Leu
 515 520 525

Glu Ile Glu Ile Pro Ser Glu Val Ser Asp Val Trp Phe Glu Leu Gly
 530 535 540

Thr Tyr Leu Pro Thr Thr Ser Gly His Ser Lys Pro Thr His Glu Asp
 545 550 555 560

Ser Val Ser Ala His Ser Asp Thr Asp Gly Gln Asn Leu Leu Leu Phe
 565 570 575

Tyr Ile Leu Gly Thr Val Val Ala Ile Ser Leu Leu Leu Val Leu Ala
 580 585 590

Leu Gly Ile Leu Ile Tyr His Lys Arg Arg Ala Lys Lys Glu Glu Ile
 595 600 605

Lys Glu Lys Lys Pro Gln Asn Ala Ala Asp Ser Tyr Ser Trp Val Pro
 610 615 620

Glu Arg Ala Glu Ser Gln Ala Pro Glu Asn Gln Tyr Ser Pro Thr Pro
 625 630 635 640

Gly Thr Asp Cys

<210> 81
 <211> 688
 <212> PRT
 <213> Homo sapiens

<400> 81

Met Trp Cys Ile Val Leu Phe Ser Leu Leu Ala Trp Val Tyr Ala Glu
 1 5 10 15

Pro Thr Met Tyr Gly Glu Ile Leu Ser Pro Asn Tyr Pro Gln Ala Tyr
20 25 30

Pro Ser Glu Val Glu Lys Ser Trp Asp Ile Glu Val Pro Glu Gly Tyr
35 40 45

Gly Ile His Leu Tyr Phe Thr His Leu Asp Ile Glu Leu Ser Glu Asn
50 55 60

Cys Ala Tyr Asp Ser Val Gln Ile Ile Ser Gly Asp Thr Glu Glu Gly
65 70 75 80

Arg Leu Cys Gly Gln Arg Ser Ser Asn Asn Pro His Ser Pro Ile Val
85 90 95

Glu Glu Phe Gln Val Pro Tyr Asn Lys Leu Gln Val Ile Phe Lys Ser
100 105 110

Asp Phe Ser Asn Glu Glu Arg Phe Thr Gly Phe Ala Ala Tyr Tyr Val
115 120 125

Ala Thr Asp Ile Asn Glu Cys Thr Asp Phe Val Asp Val Pro Cys Ser
130 135 140

His Phe Cys Asn Asn Phe Ile Gly Gly Tyr Phe Cys Ser Cys Pro Pro
145 150 155 160

Glu Tyr Phe Leu His Asp Asp Met Lys Asn Cys Gly Val Asn Cys Ser
165 170 175

Gly Asp Val Phe Thr Ala Leu Ile Gly Glu Ile Ala Ser Pro Asn Tyr
180 185 190

Pro Lys Pro Tyr Pro Glu Asn Ser Arg Cys Glu Tyr Gln Ile Arg Leu
195 200 205

Glu Lys Gly Phe Gln Val Val Val Thr Leu Arg Arg Glu Asp Phe Asp
210 215 220

Val Glu Ala Ala Asp Ser Ala Gly Asn Cys Leu Asp Ser Leu Val Phe
225 230 235 240

Val Ala Gly Asp Arg Gln Phe Gly Pro Tyr Cys Gly His Gly Phe Pro
245 250 255

Gly Pro Leu Asn Ile Glu Thr Lys Ser Asn Ala Leu Asp Ile Ile Phe
260 265 270

Gln Thr Asp Leu Thr Gly Gln Lys Lys Gly Trp Lys Leu Arg Tyr His
275 280 285

Gly Asp Pro Met Pro Cys Pro Lys Glu Asp Thr Pro Asn Ser Val Trp
290 295 300

Glu Pro Ala Lys Ala Lys Tyr Val Phe Arg Asp Val Val Gln Ile Thr
305 310 315 320

Cys Leu Asp Gly Phe Glu Val Val Glu Gly Arg Val Gly Ala Thr Ser
325 330 335

Phe Tyr Ser Thr Cys Gln Ser Asn Gly Lys Trp Ser Asn Ser Lys Leu
340 345 350

Lys Cys Gln Pro Val Asp Cys Gly Ile Pro Glu Ser Ile Glu Asn Gly
355 360 365

Lys Val Glu Asp Pro Glu Ser Thr Leu Phe Gly Ser Val Ile Arg Tyr
370 375 380

Thr Cys Glu Glu Pro Tyr Tyr Tyr Met Glu Asn Gly Gly Gly Gly Glu
385 390 395 400

Tyr His Cys Ala Gly Asn Gly Ser Trp Val Asn Glu Val Leu Gly Pro
405 410 415

Glu Leu Pro Lys Cys Val Pro Val Cys Gly Val Pro Arg Glu Pro Phe
420 425 430

Glu Glu Lys Gln Arg Ile Ile Gly Gly Ser Asp Ala Asp Ile Lys Asn
435 440 445

Phe Pro Trp Gln Val Phe Phe Asp Asn Pro Trp Ala Gly Gly Ala Leu
450 455 460

Ile Asn Glu Tyr Trp Val Leu Thr Ala Ala His Val Val Glu Gly Asn
465 470 475 480

Arg Glu Pro Thr Met Tyr Val Gly Ser Thr Ser Val Gln Thr Ser Arg
485 490 495

Leu Ala Lys Ser Lys Met Leu Thr Pro Glu His Val Phe Ile His Pro
500 505 510

Gly Trp Lys Leu Leu Glu Val Pro Glu Gly Arg Thr Asn Phe Asp Asn
515 520 525

Asp Ile Ala Leu Val Arg Leu Lys Asp Pro Val Lys Met Gly Pro Thr
530 535 540

Val Ser Pro Ile Cys Leu Pro Gly Thr Ser Ser Asp Tyr Asn Leu Met
545 550 555 560

Asp Gly Asp Leu Gly Leu Ile Ser Gly Trp Gly Arg Thr Glu Lys Arg
565 570 575

Asp Arg Ala Val Arg Leu Lys Ala Ala Arg Leu Pro Val Ala Pro Leu
580 585 590

Arg Lys Cys Lys Glu Val Lys Val Glu Lys Pro Thr Ala Asp Ala Glu
595 600 605

Ala Tyr Val Phe Thr Pro Asn Met Ile Cys Ala Gly Gly Glu Lys Gly
610 615 620

Met Asp Ser Cys Lys Gly Asp Ser Gly Gly Ala Phe Ala Val Gln Asp
625 630 635 640

Pro Asn Asp Lys Thr Lys Phe Tyr Ala Ala Gly Leu Val Ser Trp Gly
645 650 655

Pro Gln Cys Gly Thr Tyr Gly Leu Tyr Thr Arg Val Lys Asn Tyr Val
660 665 670

Asp Trp Ile Met Lys Thr Met Gln Glu Asn Ser Thr Pro Arg Glu Asp
675 680 685

<210> 82
<211> 652
<212> PRT
<213> Homo sapiens

<400> 82

Met Ala Thr Ser Met Gly Leu Leu Leu Leu Leu Leu Leu Leu Thr
1 5 10 15

Gln Pro Gly Ala Gly Thr Gly Ala Asp Thr Glu Ala Val Val Cys Val
20 25 30

Gly Thr Ala Cys Tyr Thr Ala His Ser Gly Lys Leu Ser Ala Ala Glu
35 40 45

Ala Gln Asn His Cys Asn Gln Asn Gly Gly Asn Leu Ala Thr Val Lys
50 55 60

Ser Lys Glu Glu Ala Gln His Val Gln Arg Val Leu Ala Gln Leu Leu
65 70 75 80

Arg Arg Glu Ala Ala Leu Thr Ala Arg Met Ser Lys Phe Trp Ile Gly
85 90 95

Leu Gln Arg Glu Lys Gly Lys Cys Leu Asp Pro Ser Leu Pro Leu Lys
100 105 110

Gly Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Pro Tyr Ser Asn Trp
115 120 125

His Lys Glu Leu Arg Asn Ser Cys Ile Ser Lys Arg Cys Val Ser Leu
130 135 140

Leu Leu Asp Leu Ser Gln Pro Leu Leu Pro Asn Arg Leu Pro Lys Trp
145 150 155 160

Ser Glu Gly Pro Cys Gly Ser Pro Gly Ser Pro Gly Ser Asn Ile Glu
165 170 175

Gly Phe Val Cys Lys Phe Ser Phe Lys Gly Met Cys Arg Pro Leu Ala
180 185 190

Leu Gly Gly Pro Gly Gln Val Thr Tyr Thr Thr Pro Phe Gln Thr Thr
195 200 205

Ser Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Ala Ala Asn Val Ala
210 215 220

Cys Gly Glu Gly Asp Lys Asp Glu Thr Gln Ser His Tyr Phe Leu Cys
 225 230 235 240

Lys Glu Lys Ala Pro Asp Val Phe Asp Trp Gly Ser Ser Gly Pro Leu
 245 250 255

Cys Val Ser Pro Lys Tyr Gly Cys Asn Phe Asn Asn Gly Gly Cys His
 260 265 270

Gln Asp Cys Phe Glu Gly Gly Asp Gly Ser Phe Leu Cys Gly Cys Arg
 275 280 285

Pro Gly Phe Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn
 290 295 300

Pro Cys Ser Ser Ser Pro Cys Arg Gly Gly Ala Thr Cys Val Leu Gly
 305 310 315 320

Pro His Gly Lys Asn Tyr Thr Cys Arg Cys Pro Gln Gly Tyr Gln Leu
 325 330 335

Asp Ser Ser Gln Leu Asp Cys Val Asp Val Asp Glu Cys Gln Asp Ser
 340 345 350

Pro Cys Ala Gln Glu Cys Val Asn Thr Pro Gly Gly Phe Arg Cys Glu
 355 360 365

Cys Trp Val Gly Tyr Glu Pro Gly Gly Pro Gly Glu Gly Ala Cys Gln
 370 375 380

Asp Val Asp Glu Cys Ala Leu Gly Arg Ser Pro Cys Ala Gln Gly Cys
 385 390 395 400

Thr Asn Thr Asp Gly Ser Phe His Cys Ser Cys Glu Glu Gly Tyr Val
 405 410 415

Leu Ala Gly Glu Asp Gly Thr Gln Cys Gln Asp Val Asp Glu Cys Val
 420 425 430

Gly Pro Gly Gly Pro Leu Cys Asp Ser Leu Cys Phe Asn Thr Gln Gly
 435 440 445

Ser Phe His Cys Gly Cys Leu Pro Gly Trp Val Leu Ala Pro Asn Gly

450 455 460
 Val Ser Cys Thr Met Gly Pro Val Ser Leu Gly Pro Pro Ser Gly Pro
 465 470 475 480
 Pro Asp Glu Glu Asp Lys Gly Glu Lys Glu Gly Ser Thr Val Pro Arg
 485 490 495
 Ala Ala Thr Ala Ser Pro Thr Arg Gly Pro Glu Gly Thr Pro Lys Ala
 500 505 510
 Thr Pro Thr Thr Ser Arg Pro Ser Leu Ser Ser Asp Ala Pro Ile Thr
 515 520 525
 Ser Ala Pro Leu Lys Met Leu Ala Pro Ser Gly Ser Ser Gly Val Trp
 530 535 540
 Arg Glu Pro Ser Ile His His Ala Thr Ala Ala Ser Gly Pro Gln Glu
 545 550 555 560
 Pro Ala Gly Gly Asp Ser Ser Val Ala Thr Gln Asn Asn Asp Gly Thr
 565 570 575
 Asp Gly Gln Lys Leu Leu Leu Phe Tyr Ile Leu Gly Thr Val Val Ala
 580 585 590
 Ile Leu Leu Leu Leu Ala Leu Ala Leu Gly Leu Leu Val Tyr Arg Lys
 595 600 605
 Arg Arg Ala Lys Arg Glu Glu Lys Lys Glu Lys Lys Pro Gln Asn Ala
 610 615 620
 Ala Asp Ser Tyr Ser Trp Val Pro Glu Arg Ala Glu Ser Arg Ala Met
 625 630 635 640
 Glu Asn Gln Tyr Ser Pro Thr Pro Gly Thr Asp Cys
 645 650

<210> 83
 <211> 248
 <212> PRT
 <213> Homo sapiens
 <400> 83

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Ser Met Val Ala
 1 5 10 15
 Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys
 20 25 30
 Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
 35 40 45
 Lys Asp Gly Arg Asp Gly Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln
 50 55 60
 Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
 65 70 75 80
 Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
 85 90 95
 Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
 100 105 110
 Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
 115 120 125
 Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
 130 135 140
 Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala
 145 150 155 160
 Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
 165 170 175
 Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
 180 185 190
 Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
 195 200 205
 Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
 210 215 220
 Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
 225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
245

<210> 84
<211> 159
<212> PRT
<213> *Zephyranthes candida*

<400> 84

Met Thr Arg Ile Thr Phe Leu Val Val Ala Ala Ile Phe Leu Gly Val
1 5 10 15

Ile Thr Pro Ser Cys Leu Ser Val Cys Asp Ser Ile Leu Tyr Ser Gly
20 25 30

Glu Thr Leu Ser Ala Gly Gln Ser Leu Asn Asn Gly Pro Tyr Thr Phe
35 40 45

Ile Met Gln Glu Asp Cys Asn Leu Val Leu Tyr Asn Val Asp Lys Pro
50 55 60

Ile Trp Ala Ser Asn Thr Gly Gly Leu Ala Arg Gly Cys His Leu Ser
65 70 75 80

Met Gln Arg Asp Gly Asn Leu Val Val Tyr Ser Gln Arg Asn Arg Pro
85 90 95

Ile Trp Ala Ser Asn Thr Gly Gly His Asn Ala Ala Asn Tyr Val Leu
100 105 110

Ile Leu Gln Lys Asp Arg Asn Val Val Ile Tyr Gly Pro Ala Lys Trp
115 120 125

Ala Thr Gly Thr Tyr Thr Gly Ala Val Gly Ile Ser Gly Phe Glu Thr
130 135 140

Gly Thr Ala Gly Ile Ile Lys Pro Val Thr Val Lys Ser Ala Lys
145 150 155

<210> 85
<211> 239
<212> PRT
<213> *Mus musculus*

<400> 85

Met Leu Leu Leu Pro Leu Leu Pro Val Leu Leu Cys Val Val Ser Val
1 5 10 15

Ser Ser Ser Gly Ser Gln Thr Cys Glu Asp Thr Leu Lys Thr Cys Ser
20 25 30

Val Ile Ala Cys Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys
35 40 45

Gly Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys
50 55 60

Leu Gly Pro Pro Gly Ser Val Gly Ser Pro Gly Ser Pro Gly Pro Lys
65 70 75 80

Gly Gln Lys Gly Asp His Gly Asp Asn Arg Ala Ile Glu Glu Lys Leu
85 90 95

Ala Asn Met Glu Ala Glu Ile Arg Ile Leu Lys Ser Lys Leu Gln Leu
100 105 110

Thr Asn Lys Leu His Ala Phe Ser Met Gly Lys Lys Ser Gly Lys Lys
115 120 125

Leu Phe Val Thr Asn His Glu Lys Met Pro Phe Ser Lys Val Lys Ser
130 135 140

Leu Cys Thr Glu Leu Gln Gly Thr Val Ala Ile Pro Arg Asn Ala Glu
145 150 155 160

Glu Asn Lys Ala Ile Gln Glu Val Ala Thr Gly Ile Ala Phe Leu Gly
165 170 175

Ile Thr Asp Glu Ala Thr Glu Gly Gln Phe Met Tyr Val Thr Gly Gly
180 185 190

Arg Leu Thr Tyr Ser Asn Trp Lys Lys Asp Glu Pro Asn Asn His Gly
195 200 205

Ser Gly Glu Asp Cys Val Ile Ile Leu Asp Asn Gly Leu Trp Asn Asp
210 215 220

Ile Ser Cys Gln Ala Ser Phe Lys Ala Val Cys Glu Phe Pro Ala
 225 230 235

<210> 86
 <211> 244
 <212> PRT
 <213> Mus musculus

<400> 86

Met Ser Ile Phe Thr Ser Phe Leu Leu Leu Cys Val Val Thr Val Val
 1 5 10 15

Tyr Ala Glu Thr Leu Thr Glu Gly Val Gln Asn Ser Cys Pro Val Val
 20 25 30

Thr Cys Ser Ser Pro Gly Leu Asn Gly Phe Pro Gly Lys Asp Gly Arg
 35 40 45

Asp Gly Ala Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly Leu Arg Gly
 50 55 60

Leu Gln Gly Pro Pro Gly Lys Val Gly Pro Thr Gly Pro Pro Gly Asn
 65 70 75 80

Pro Gly Leu Lys Gly Ala Val Gly Pro Lys Gly Asp Arg Gly Asp Arg
 85 90 95

Ala Glu Phe Asp Thr Ser Glu Ile Asp Ser Glu Ile Ala Ala Leu Arg
 100 105 110

Ser Glu Leu Arg Ala Leu Arg Asn Trp Val Leu Phe Ser Leu Ser Glu
 115 120 125

Lys Val Gly Lys Lys Tyr Phe Val Ser Ser Val Lys Lys Met Ser Leu
 130 135 140

Asp Arg Val Lys Ala Leu Cys Ser Glu Phe Gln Gly Ser Val Ala Thr
 145 150 155 160

Pro Arg Asn Ala Glu Glu Asn Ser Ala Ile Gln Lys Val Ala Lys Asp
 165 170 175

Ile Ala Tyr Leu Gly Ile Thr Asp Val Arg Val Glu Gly Ser Phe Glu
 180 185 190

Asp Leu Thr Gly Asn Arg Val Arg Tyr Thr Asn Trp Asn Asp Gly Glu
 195 200 205

Pro Asn Asn Thr Gly Asp Gly Glu Asp Cys Val Val Ile Leu Gly Asn
 210 215 220

Gly Lys Trp Asn Asp Val Pro Cys Ser Asp Ser Phe Leu Ala Ile Cys
 225 230 235 240

Glu Phe Ser Asp

<210> 87
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 87

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Leu Ser Met Val Ala
 1 5 10 15

Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys
 20 25 30

Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
 35 40 45

Lys Asp Gly Arg Asp Gly Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln
 50 55 60

Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
 65 70 75 80

Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
 85 90 95

Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
 100 105 110

Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
 115 120 125

Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
 130 135 140

Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala
 145 150 155 160

Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
 165 170 175

Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
 180 185 190

Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
 195 200 205

Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
 210 215 220

Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
 225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
 245

<210> 88
 <211> 185
 <212> PRT
 <213> Mus musculus

<400> 88

Met Arg Leu Leu Ile Phe Leu Gly Leu Leu Trp Ser Leu Val Ala Thr
 1 5 10 15

Leu Leu Gly Ser Lys Trp Pro Glu Pro Val Phe Gly Arg Leu Val Ser
 20 25 30

Pro Gly Phe Pro Glu Lys Tyr Ala Asp His Gln Asp Arg Ser Trp Thr
 35 40 45

Leu Thr Ala Pro Pro Gly Tyr Arg Leu Arg Leu Tyr Phe Thr His Phe
 50 55 60

Asp Leu Glu Leu Ser Tyr Arg Cys Glu Tyr Asp Phe Val Lys Leu Ser
 65 70 75 80

Ser Gly Thr Lys Val Leu Ala Thr Leu Cys Gly Gln Glu Ser Thr Asp

85

90

95

Thr Glu Gln Ala Pro Gly Asn Asp Thr Phe Tyr Ser Leu Gly Pro Ser
 100 105 110

Leu Lys Val Thr Phe His Ser Asp Tyr Ser Asn Glu Lys Pro Phe Thr
 115 120 125

Gly Phe Glu Ala Phe Tyr Ala Ala Glu Asp Val Asp Glu Cys Arg Val
 130 135 140

Ser Leu Gly Asp Ser Val Pro Cys Asp His Tyr Cys His Asn Tyr Leu
 145 150 155 160

Gly Gly Tyr Tyr Cys Ser Cys Arg Ala Gly Tyr Val Leu His Gln Asn
 165 170 175

Lys His Thr Cys Ser Glu Gln Ser Leu
 180 185

<210> 89
 <211> 643
 <212> PRT
 <213> Rattus norvegicus

<400> 89

Met Val Thr Ser Thr Gly Leu Leu Leu Leu Leu Gly Leu Leu Gly Gln
 1 5 10 15

Leu Trp Ala Gly Ala Ala Ala Asp Ser Glu Ala Val Val Cys Glu Gly
 20 25 30

Thr Ala Cys Tyr Thr Ala His Trp Gly Lys Leu Ser Ala Ala Glu Ala
 35 40 45

Gln His Arg Cys Asn Glu Asn Gly Gly Asn Leu Ala Thr Val Lys Ser
 50 55 60

Glu Glu Glu Ala Arg His Val Gln Glu Ala Leu Ala Gln Leu Leu Lys
 65 70 75 80

Thr Lys Ala Pro Ser Glu Thr Lys Ile Gly Lys Phe Trp Ile Gly Leu
 85 90 95

Gln Arg Glu Lys Gly Lys Cys Thr Tyr His Asp Leu Pro Met Lys Gly
 100 105 110

Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Thr Tyr Ser Asn Trp Tyr
 115 120 125

Lys Ala Ser Lys Ser Ser Cys Ile Ser Lys Arg Cys Val Ser Leu Ile
 130 135 140

Leu Asp Leu Ser Leu Lys Pro His Pro Ser His Leu Pro Lys Trp His
 145 150 155 160

Glu Ser Pro Cys Gly Thr Pro Asp Ala Pro Gly Asn Ser Ile Glu Gly
 165 170 175

Phe Leu Cys Lys Phe Asn Phe Lys Gly Met Cys Ser Pro Leu Ala Leu
 180 185 190

Gly Gly Pro Gly Gln Leu Thr Tyr Thr Thr Pro Phe Gln Ala Thr Thr
 195 200 205

Ser Ser Leu Lys Ala Val Pro Phe Ala Ser Val Ala Asn Val Val Cys
 210 215 220

Gly Asp Glu Ala Glu Ser Lys Thr Asn Tyr Tyr Leu Cys Lys Glu Thr
 225 230 235 240

Thr Ala Gly Val Phe His Trp Gly Ser Ser Gly Pro Leu Cys Val Ser
 245 250 255

Pro Lys Phe Gly Cys Ser Phe Asn Asn Gly Gly Cys Gln Gln Asp Cys
 260 265 270

Phe Glu Gly Gly Asp Gly Ser Phe Arg Cys Gly Cys Arg Pro Gly Phe
 275 280 285

Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn Pro Cys Ser
 290 295 300

Ser Asn Pro Cys Thr Gly Gly Gly Met Cys His Ser Val Pro Leu Ser
 305 310 315 320

Glu Asn Tyr Thr Cys His Cys Pro Arg Gly Tyr Gln Leu Asp Ser Ser
 325 330 335

Gln Val His Cys Val Asp Ile Asp Glu Cys Glu Asp Ser Pro Cys Asp
 340 345 350

Gln Glu Cys Ile Asn Thr Pro Gly Gly Phe His Cys Glu Cys Trp Val
 355 360 365

Gly Tyr Gln Ser Ser Gly Ser Lys Glu Glu Ala Cys Glu Asp Val Asp
 370 375 380

Glu Cys Thr Ala Ala Tyr Ser Pro Cys Ala Gln Gly Cys Thr Asn Thr
 385 390 395 400

Asp Gly Ser Phe Tyr Cys Ser Cys Lys Glu Gly Tyr Ile Met Ser Gly
 405 410 415

Glu Asp Ser Thr Gln Cys Glu Asp Ile Asp Glu Cys Leu Gly Asn Pro
 420 425 430

Cys Asp Thr Leu Cys Ile Asn Thr Asp Gly Ser Phe Arg Cys Gly Cys
 435 440 445

Pro Ala Gly Phe Glu Leu Ala Pro Asn Gly Val Ser Cys Thr Arg Gly
 450 455 460

Ser Met Phe Ser Glu Leu Pro Ala Arg Pro Pro Gln Lys Glu Asp Lys
 465 470 475 480

Gly Asp Gly Lys Glu Ser Thr Val Pro Leu Thr Glu Met Pro Gly Ser
 485 490 495

Leu Asn Gly Ser Lys Asp Val Ser Asn Arg Ala Gln Thr Thr Asp Leu
 500 505 510

Ser Ile Gln Ser Asp Ser Ser Thr Ala Ser Val Pro Leu Glu Ile Glu
 515 520 525

Val Ser Ser Glu Ala Ser Asp Val Trp Leu Asp Leu Gly Thr Tyr Leu
 530 535 540

Pro Thr Thr Ser Gly His Ser Gln Pro Thr His Glu Asp Ser Val Pro
 545 550 555 560

Ala His Ser Asp Ser Asp Thr Asp Gly Gln Lys Leu Leu Leu Phe Tyr
565 570 575

Ile Leu Gly Thr Val Val Ala Ile Ser Leu Leu Leu Ala Leu Ala Leu
580 585 590

Gly Leu Leu Ile Tyr Leu Lys Arg Lys Ala Lys Lys Glu Glu Ile Lys
595 600 605

Glu Lys Lys Ala Gln Asn Ala Ala Asp Ser Tyr Ser Trp Ile Pro Glu
610 615 620

Arg Ala Glu Ser Arg Ala Pro Glu Asn Gln Tyr Ser Pro Thr Pro Gly
625 630 635 640

Thr Asp Cys

<210> 90
<211> 686
<212> PRT
<213> Homo sapiens

<400> 90

Met Arg Leu Leu Thr Leu Leu Gly Leu Leu Cys Gly Ser Val Ala Thr
1 5 10 15

Pro Leu Gly Pro Lys Trp Pro Glu Pro Val Phe Gly Arg Leu Ala Ser
20 25 30

Pro Gly Phe Pro Gly Glu Tyr Ala Asn Asp Gln Glu Arg Arg Trp Thr
35 40 45

Leu Thr Ala Pro Pro Gly Tyr Arg Leu Arg Leu Tyr Phe Thr His Phe
50 55 60

Asp Leu Glu Leu Ser His Leu Cys Glu Tyr Asp Phe Val Lys Leu Ser
65 70 75 80

Ser Gly Ala Lys Val Leu Ala Thr Leu Cys Gly Gln Glu Ser Thr Asp
85 90 95

Thr Glu Arg Ala Pro Gly Lys Asp Thr Phe Tyr Ser Leu Gly Ser Ser
100 105 110

Leu Asp Ile Thr Phe Arg Ser Asp Tyr Ser Asn Glu Lys Pro Phe Thr
115 120 125

Gly Phe Glu Ala Phe Tyr Ala Ala Glu Asp Ile Asp Glu Cys Gln Val
130 135 140

Ala Pro Gly Glu Ala Pro Thr Cys Asp His His Cys His Asn His Leu
145 150 155 160

Gly Gly Phe Tyr Cys Ser Cys Arg Ala Gly Tyr Val Leu His Arg Asn
165 170 175

Lys Arg Thr Cys Ser Ala Leu Cys Ser Gly Gln Val Phe Thr Gln Arg
180 185 190

Ser Gly Glu Leu Ser Ser Pro Glu Tyr Pro Arg Pro Tyr Pro Lys Leu
195 200 205

Ser Ser Cys Thr Tyr Ser Ile Ser Leu Glu Glu Gly Phe Ser Val Ile
210 215 220

Leu Asp Phe Val Glu Ser Phe Asp Val Glu Thr His Pro Glu Thr Leu
225 230 235 240

Cys Pro Tyr Asp Phe Leu Lys Ile Gln Thr Asp Arg Glu Glu His Gly
245 250 255

Pro Phe Cys Gly Lys Thr Leu Pro His Arg Ile Glu Thr Lys Ser Asn
260 265 270

Thr Val Thr Ile Thr Phe Val Thr Asp Glu Ser Gly Asp His Thr Gly
275 280 285

Trp Lys Ile His Tyr Thr Ser Thr Ala Gln Pro Cys Pro Tyr Pro Met
290 295 300

Ala Pro Pro Asn Gly His Val Ser Pro Val Gln Ala Lys Tyr Ile Leu
305 310 315 320

Lys Asp Ser Phe Ser Ile Phe Cys Glu Thr Gly Tyr Glu Leu Leu Gln
325 330 335

Gly His Leu Pro Leu Lys Ser Phe Thr Ala Val Cys Gln Lys Asp Gly

340	345	350
Ser Trp Asp Arg Pro Met Pro Ala Cys Ser Ile Val Asp Cys Gly Pro		
355	360	365
Pro Asp Asp Leu Pro Ser Gly Arg Val Glu Tyr Ile Thr Gly Pro Gly		
370	375	380
Val Thr Thr Tyr Lys Ala Val Ile Gln Tyr Ser Cys Glu Glu Thr Phe		
385	390	395 400
Tyr Thr Met Lys Val Asn Asp Gly Lys Tyr Val Cys Glu Ala Asp Gly		
	405 410	415
Phe Trp Thr Ser Ser Lys Gly Glu Lys Ser Leu Pro Val Cys Glu Pro		
	420 425	430
Val Cys Gly Leu Ser Ala Arg Thr Thr Gly Gly Arg Ile Tyr Gly Gly		
435	440	445
Gln Lys Ala Lys Pro Gly Asp Phe Pro Trp Gln Val Leu Ile Leu Gly		
450	455	460
Gly Thr Thr Ala Ala Gly Ala Leu Leu Tyr Asp Asn Trp Val Leu Thr		
465	470 475	480
Ala Ala His Ala Val Tyr Glu Gln Lys His Asp Ala Ser Ala Leu Asp		
	485 490	495
Ile Arg Met Gly Thr Leu Lys Arg Leu Ser Pro His Tyr Thr Gln Ala		
	500 505	510
Trp Ser Glu Ala Val Phe Ile His Glu Gly Tyr Thr His Asp Ala Gly		
	515 520	525
Phe Asp Asn Asp Ile Ala Leu Ile Lys Leu Asn Asn Lys Val Val Ile		
530	535	540
Asn Ser Asn Ile Thr Pro Ile Cys Leu Pro Arg Lys Glu Ala Glu Ser		
545	550 555	560
Phe Met Arg Thr Asp Asp Ile Gly Thr Ala Ser Gly Trp Gly Leu Thr		
	565 570	575

Gln Arg Gly Phe Leu Ala Arg Asn Leu Met Tyr Val Asp Ile Pro Ile
580 585 590

Val Asp His Gln Lys Cys Thr Ala Ala Tyr Glu Lys Pro Pro Tyr Pro
595 600 605

Arg Gly Ser Val Thr Ala Asn Met Leu Cys Ala Gly Leu Glu Ser Gly
610 615 620

Gly Lys Asp Ser Cys Arg Gly Asp Ser Gly Gly Ala Leu Val Phe Leu
625 630 635 640

Asp Ser Glu Thr Glu Arg Trp Phe Val Gly Gly Ile Val Ser Trp Gly
645 650 655

Ser Met Asn Cys Gly Glu Ala Gly Gln Tyr Gly Val Tyr Thr Lys Val
660 665 670

Ile Asn Tyr Ile Pro Trp Ile Glu Asn Ile Ile Ser Asp Phe
675 680 685

<210> 91
<211> 185
<212> PRT
<213> Homo sapiens

<400> 91

Met Arg Leu Leu Thr Leu Leu Gly Leu Leu Cys Gly Ser Val Ala Thr
1 5 10 15

Pro Leu Gly Pro Lys Trp Pro Glu Pro Val Phe Gly Arg Leu Ala Ser
20 25 30

Pro Gly Phe Pro Gly Glu Tyr Ala Asn Asp Gln Glu Arg Arg Trp Thr
35 40 45

Leu Thr Ala Pro Pro Gly Tyr Arg Leu Arg Leu Tyr Phe Thr His Phe
50 55 60

Asp Leu Glu Leu Ser His Leu Cys Glu Tyr Asp Phe Val Lys Leu Ser
65 70 75 80

Ser Gly Ala Lys Val Leu Ala Thr Leu Cys Gly Gln Glu Ser Thr Asp
85 90 95

Thr Glu Arg Ala Pro Gly Lys Asp Thr Phe Tyr Ser Leu Gly Ser Ser
 100 105 110

Leu Asp Ile Thr Phe Arg Ser Asp Tyr Ser Asn Glu Lys Pro Phe Thr
 115 120 125

Gly Phe Glu Ala Phe Tyr Ala Ala Glu Asp Ile Asp Glu Cys Gln Val
 130 135 140

Ala Pro Gly Glu Ala Pro Thr Cys Asp His His Cys His Asn His Leu
 145 150 155 160

Gly Gly Phe Tyr Cys Ser Cys Arg Ala Gly Tyr Val Leu His Arg Asn
 165 170 175

Lys Arg Thr Cys Ser Glu Gln Ser Leu
 180 185

<210> 92
 <211> 728
 <212> PRT
 <213> Homo sapiens

<400> 92

Met Arg Trp Leu Leu Leu Tyr Tyr Ala Leu Cys Phe Ser Leu Ser Lys
 1 5 10 15

Ala Ser Ala His Thr Val Glu Leu Asn Asn Met Phe Gly Gln Ile Gln
 20 25 30

Ser Pro Gly Tyr Pro Asp Ser Tyr Pro Ser Asp Ser Glu Val Thr Trp
 35 40 45

Asn Ile Thr Val Pro Asp Gly Phe Arg Ile Lys Leu Tyr Phe Met His
 50 55 60

Phe Asn Leu Glu Ser Ser Tyr Leu Cys Glu Tyr Asp Tyr Val Lys Val
 65 70 75 80

Glu Thr Glu Asp Gln Val Leu Ala Thr Phe Cys Gly Arg Glu Thr Thr
 85 90 95

Asp Thr Glu Gln Thr Pro Gly Gln Glu Val Val Leu Ser Pro Gly Ser

100	105	110
Phe Met Ser Ile Thr Phe Arg Ser Asp Phe Ser Asn Glu Glu Arg Phe		
115	120	125
Thr Gly Phe Asp Ala His Tyr Met Ala Val Asp Val Asp Glu Cys Lys		
130	135	140
Glu Arg Glu Asp Glu Glu Leu Ser Cys Asp His Tyr Cys His Asn Tyr		
145	150	155
Ile Gly Gly Tyr Tyr Cys Ser Cys Arg Phe Gly Tyr Ile Leu His Thr		
165	170	175
Asp Asn Arg Thr Cys Arg Val Glu Cys Ser Asp Asn Leu Phe Thr Gln		
180	185	190
Arg Thr Gly Val Ile Thr Ser Pro Asp Phe Pro Asn Pro Tyr Pro Lys		
195	200	205
Ser Ser Glu Cys Leu Tyr Thr Ile Glu Leu Glu Glu Gly Phe Met Val		
210	215	220
Asn Leu Gln Phe Glu Asp Ile Phe Asp Ile Glu Asp His Pro Glu Val		
225	230	235
Pro Cys Pro Tyr Asp Tyr Ile Lys Ile Lys Val Gly Pro Lys Val Leu		
245	250	255
Gly Pro Phe Cys Gly Glu Lys Ala Pro Glu Pro Ile Ser Thr Gln Ser		
260	265	270
His Ser Val Leu Ile Leu Phe His Ser Asp Asn Ser Gly Glu Asn Arg		
275	280	285
Gly Trp Arg Leu Ser Tyr Arg Ala Ala Gly Asn Glu Cys Pro Glu Leu		
290	295	300
Gln Pro Pro Val His Gly Lys Ile Glu Pro Ser Gln Ala Lys Tyr Phe		
305	310	315
Phe Lys Asp Gln Val Leu Val Ser Cys Asp Thr Gly Tyr Lys Val Leu		
325	330	335

Lys Asp Asn Val Glu Met Asp Thr Phe Gln Ile Glu Cys Leu Lys Asp
 340 345 350

Gly Thr Trp Ser Asn Lys Ile Pro Thr Cys Lys Ile Val Asp Cys Arg
 355 360 365

Ala Pro Gly Glu Leu Glu His Gly Leu Ile Thr Phe Ser Thr Arg Asn
 370 375 380

Asn Leu Thr Thr Tyr Lys Ser Glu Ile Lys Tyr Ser Cys Gln Glu Pro
 385 390 395 400

Tyr Tyr Lys Met Leu Asn Asn Asn Thr Gly Ile Tyr Thr Cys Ser Ala
 405 410 415

Gln Gly Val Trp Met Asn Lys Val Leu Gly Arg Ser Leu Pro Thr Cys
 420 425 430

Leu Pro Glu Cys Gly Gln Pro Ser Arg Ser Leu Pro Ser Leu Val Lys
 435 440 445

Arg Ile Ile Gly Gly Arg Asn Ala Glu Pro Gly Leu Phe Pro Trp Gln
 450 455 460

Ala Leu Ile Val Val Glu Asp Thr Ser Arg Val Pro Asn Asp Lys Trp
 465 470 475 480

Phe Gly Ser Gly Ala Leu Leu Ser Ala Ser Trp Ile Leu Thr Ala Ala
 485 490 495

His Val Leu Arg Ser Gln Arg Arg Asp Thr Thr Val Ile Pro Val Ser
 500 505 510

Lys Glu His Val Thr Val Tyr Leu Gly Leu His Asp Val Arg Asp Lys
 515 520 525

Ser Gly Ala Val Asn Ser Ser Ala Ala Arg Val Val Leu His Pro Asp
 530 535 540

Phe Asn Ile Gln Asn Tyr Asn His Asp Ile Ala Leu Val Gln Leu Gln
 545 550 555 560

Glu Pro Val Pro Leu Gly Pro His Val Met Pro Val Cys Leu Pro Arg

Ser Pro Gly Tyr Pro Asp Ser Tyr Pro Ser Asp Ser Glu Val Thr Trp
 35 40 45

Asn Ile Thr Val Pro Asp Gly Phe Arg Ile Lys Leu Tyr Phe Met His
 50 55 60

Phe Asn Leu Glu Ser Ser Tyr Leu Cys Glu Tyr Asp Tyr Val Lys Val
 65 70 75 80

Glu Thr Glu Asp Gln Val Leu Ala Thr Phe Cys Gly Arg Glu Thr Thr
 85 90 95

Asp Thr Glu Gln Thr Pro Gly Gln Glu Val Val Leu Ser Pro Gly Ser
 100 105 110

Phe Met Ser Ile Thr Phe Arg Ser Asp Phe Ser Asn Glu Glu Arg Phe
 115 120 125

Thr Gly Phe Asp Ala His Tyr Met Ala Val Asp Val Asp Glu Cys Lys
 130 135 140

Glu Arg Glu Asp Glu Glu Leu Ser Cys Asp His Tyr Cys His Asn Tyr
 145 150 155 160

Ile Gly Gly Tyr Tyr Cys Ser Cys Arg Phe Gly Tyr Ile Leu His Thr
 165 170 175

Asp Asn Arg Thr Cys Arg Val Glu Cys Ser Asp Asn Leu Phe Thr Gln
 180 185 190

Arg Thr Gly Val Ile Thr Ser Pro Asp Phe Pro Asn Pro Tyr Pro Lys
 195 200 205

Ser Ser Glu Cys Leu Tyr Thr Ile Glu Leu Glu Glu Gly Phe Met Val
 210 215 220

Asn Leu Gln Phe Glu Asp Ile Phe Asp Ile Glu Asp His Pro Glu Val
 225 230 235 240

Pro Cys Pro Tyr Asp Tyr Ile Lys Ile Lys Val Gly Pro Lys Val Leu
 245 250 255

Gly Pro Phe Cys Gly Glu Lys Ala Pro Glu Pro Ile Ser Thr Gln Ser
 260 265 270

His Ser Val Leu Ile Leu Phe His Ser Asp Asn Ser Gly Glu Asn Arg
 275 280 285

Gly Trp Arg Leu Ser Tyr Arg Ala Ala Gly Asn Glu Cys Pro Glu Leu
 290 295 300

Gln Pro Pro Val His Gly Lys Ile Glu Pro Ser Gln Ala Lys Tyr Phe
 305 310 315 320

Phe Lys Asp Gln Val Leu Val Ser Cys Asp Thr Gly Tyr Lys Val Leu
 325 330 335

Lys Asp Asn Val Glu Met Asp Thr Phe Gln Ile Glu Cys Leu Lys Asp
 340 345 350

Gly Thr Trp Ser Asn Lys Ile Pro Thr Cys Lys Ile Val Asp Cys Arg
 355 360 365

Ala Pro Gly Glu Leu Glu His Gly Leu Ile Thr Phe Ser Thr Arg Asn
 370 375 380

Asn Leu Thr Thr Tyr Lys Ser Glu Ile Lys Tyr Ser Cys Gln Glu Pro
 385 390 395 400

Tyr Tyr Lys Met Leu Asn Asn Asn Thr Gly Ile Tyr Thr Cys Ser Ala
 405 410 415

Gln Gly Val Trp Met Asn Lys Val Leu Gly Arg Ser Leu Pro Thr Cys
 420 425 430

Leu Pro Val Cys Gly Leu Pro Lys Phe Ser Arg Lys Leu Met Ala Arg
 435 440 445

Ile Phe Asn Gly Arg Pro Ala Gln Lys Gly Thr Thr Pro Trp Ile Ala
 450 455 460

Met Leu Ser His Leu Asn Gly Gln Pro Phe Cys Gly Gly Ser Leu Leu
 465 470 475 480

Gly Ser Ser Trp Ile Val Thr Ala Ala His Cys Leu His Gln Ser Leu
 485 490 495

Asp Pro Glu Asp Pro Thr Leu Arg Asp Ser Asp Leu Leu Ser Pro Ser
500 505 510

Asp Phe Lys Ile Ile Leu Gly Lys His Trp Arg Leu Arg Ser Asp Glu
515 520 525

Asn Glu Gln His Leu Gly Val Lys His Thr Thr Leu His Pro Gln Tyr
530 535 540

Asp Pro Asn Thr Phe Glu Asn Asp Val Ala Leu Val Glu Leu Leu Glu
545 550 555 560

Ser Pro Val Leu Asn Ala Phe Val Met Pro Ile Cys Leu Pro Glu Gly
565 570 575

Pro Gln Gln Glu Gly Ala Met Val Ile Val Ser Gly Trp Gly Lys Gln
580 585 590

Phe Leu Gln Arg Phe Pro Glu Thr Leu Met Glu Ile Glu Ile Pro Ile
595 600 605

Val Asp His Ser Thr Cys Gln Lys Ala Tyr Ala Pro Leu Lys Lys Lys
610 615 620

Val Thr Arg Asp Met Ile Cys Ala Gly Glu Lys Glu Gly Gly Lys Asp
625 630 635 640

Ala Cys Ala Gly Asp Ser Gly Gly Pro Met Val Thr Leu Asn Arg Glu
645 650 655

Arg Gly Gln Trp Tyr Leu Val Gly Thr Val Ser Trp Gly Asp Asp Cys
660 665 670

Gly Lys Lys Asp Arg Tyr Gly Val Tyr Ser Tyr Ile His His Asn Lys
675 680 685

Asp Trp Ile Gln Arg Val Thr Gly Val Arg Asn
690 695

<210> 94
<211> 239
<212> PRT
<213> Mus musculus

<220>

<221> MISC_FEATURE
 <222> (91)..(116)
 <223> Unknown

<400> 94

Met Leu Leu Leu Pro Leu Leu Pro Val Leu Leu Cys Val Val Ser Val
 1 5 10 15

Ser Ser Ser Gly Ser Gln Thr Cys Glu Asp Thr Leu Lys Thr Cys Ser
 20 25 30

Val Ile Ala Cys Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys
 35 40 45

Gly Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys
 50 55 60

Leu Gly Pro Pro Gly Ser Val Gly Ser Pro Gly Ser Pro Gly Pro Lys
 65 70 75 80

Gly Gln Lys Gly Asp His Gly Asp Asn Arg Xaa Xaa Xaa Xaa Xaa Xaa
 85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 100 105 110

Xaa Xaa Xaa Xaa His Ala Phe Ser Met Gly Lys Lys Ser Gly Lys Lys
 115 120 125

Leu Phe Val Thr Asn His Glu Lys Met Pro Phe Ser Lys Val Lys Ser
 130 135 140

Leu Cys Thr Glu Leu Gln Gly Thr Val Ala Ile Pro Arg Asn Ala Glu
 145 150 155 160

Glu Asn Lys Ala Ile Gln Glu Val Ala Thr Gly Ile Ala Phe Leu Gly
 165 170 175

Ile Thr Asp Glu Ala Thr Glu Gly Gln Phe Met Tyr Val Thr Gly Gly
 180 185 190

Arg Leu Thr Tyr Ser Asn Trp Lys Lys Asp Glu Pro Asn Asn His Gly
 195 200 205

Ser Gly Glu Asp Cys Val Ile Ile Leu Asp Asn Gly Leu Trp Asn Asp
 210 215 220

Ile Ser Cys Gln Ala Ser Phe Lys Ala Val Cys Glu Phe Pro Ala
 225 230 235

<210> 95
 <211> 185
 <212> PRT
 <213> Oncorhynchus mykiss

<400> 95

Met Glu Lys Leu Ala Ile Leu Leu Leu Leu Ser Ala Ser Ile Ala Leu
 1 5 10 15

Gly Asp Ala Asn Leu Thr Gln Leu Leu Gly Leu Glu Pro Leu Leu Lys
 20 25 30

Thr Lys Val Glu Gln Thr Thr Pro Glu Ala Gln Val Glu Ala Val Gln
 35 40 45

Glu Gly Ile Lys Glu Gly Ser Cys Pro Ser Asp Trp Tyr Thr Tyr Gly
 50 55 60

Ser His Cys Phe Lys Phe Val Ser Ile Gln Gln Ser Phe Val Asp Ser
 65 70 75 80

Glu Gln Asn Cys Leu Ala Leu Gly Gly Asn Leu Ala Ser Val His Ser
 85 90 95

Leu Leu Glu Tyr Gln Phe Met Gln Ala Leu Thr Lys Asp Ala Asn Gly
 100 105 110

His Leu His Ser Thr Trp Leu Gly Gly Phe Asp Ala Ile Lys Glu Gly
 115 120 125

Thr Trp Met Trp Ser Asp Gly Ser Arg Phe Asp Tyr Thr Asn Trp Asp
 130 135 140

Thr Asp Glu Pro Asn Asn Ala Gly Glu Gly Glu Asp Cys Leu His Met
 145 150 155 160

Asn Ala Ala Ser Ala Lys Leu Trp Phe Asp Val Pro Cys Glu Trp Lys
 165 170 175

Phe Ala Ser Leu Cys Ser Arg Arg Met
 180 185

<210> 96
 <211> 240
 <212> PRT
 <213> Sus scrofa

<400> 96

Met Ser Leu Phe Pro Ser Leu His Leu Leu Leu Leu Ile Val Met Thr
 1 5 10 15

Ala Ser His Thr Glu Thr Glu Asn Cys Glu Asp Ile Gln Asn Thr Cys
 20 25 30

Leu Val Ile Ser Cys Asp Ser Pro Gly Ile Asn Gly Leu Pro Gly Lys
 35 40 45

Asp Gly Leu Asp Gly Ala Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly
 50 55 60

Leu Ile Gly Leu Gln Gly Leu Pro Gly Met Val Gly Pro Gln Gly Ser
 65 70 75 80

Pro Gly Ile Pro Gly Leu Pro Gly Leu Lys Gly Gln Lys Gly Asp Ser
 85 90 95

Gly Ile Asp Pro Gly Asn Ser Leu Ala Asn Leu Arg Ser Glu Leu Asp
 100 105 110

Asn Ile Lys Lys Trp Leu Ile Phe Ala Gln Gly Lys Gln Val Gly Lys
 115 120 125

Lys Leu Tyr Leu Thr Asn Gly Lys Lys Met Ser Phe Asn Gly Val Lys
 130 135 140

Ala Leu Cys Ala Gln Phe Gln Ala Ser Val Ala Thr Pro Thr Asn Ser
 145 150 155 160

Arg Glu Asn Gln Ala Ile Gln Glu Leu Ala Gly Thr Glu Ala Phe Leu
 165 170 175

Gly Ile Thr Asp Glu Tyr Thr Glu Gly Gln Phe Val Asp Leu Thr Gly

180	185	190
Lys Arg Val Arg Tyr Gln Asn Trp Asn Asp Gly Glu Pro Asn Asn Ala		
195	200	205
Asp Ser Ala Glu His Cys Val Glu Ile Leu Lys Asp Gly Lys Trp Asn		
210	215	220
Asp Ile Phe Cys Ser Ser Gln Leu Ser Ala Val Cys Glu Phe Pro Ala		
225	230	235 240
<210> 97		
<211> 239		
<212> PRT		
<213> Mus musculus		
<400> 97		
Met Leu Leu Leu Pro Leu Leu Pro Val Leu Leu Cys Val Val Ser Val		
1	5	10 15
Ser Ser Ser Gly Ser Gln Thr Cys Glu Asp Thr Leu Lys Thr Cys Ser		
	20	25 30
Val Ile Ala Cys Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys		
	35	40 45
Gly Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys		
	50	55 60
Leu Gly Pro Pro Gly Ser Val Gly Ser Pro Gly Ser Pro Gly Pro Lys		
65	70	75 80
Gly Gln Lys Gly Asp His Gly Asp Asn Arg Ala Ile Glu Glu Lys Leu		
	85	90 95
Ala Asn Met Glu Ala Glu Ile Arg Ile Leu Lys Ser Lys Leu Gln Leu		
	100	105 110
Thr Asn Lys Leu His Ala Phe Ser Met Gly Lys Lys Ser Gly Lys Lys		
	115	120 125
Leu Phe Val Thr Asn His Glu Lys Met Pro Phe Ser Lys Val Lys Ser		
	130	135 140

Leu Cys Thr Glu Leu Gln Gly Thr Val Ala Ile Pro Arg Asn Ala Glu
 145 150 155 160

Glu Asn Lys Ala Ile Gln Glu Val Ala Thr Gly Ile Ala Phe Leu Gly
 165 170 175

Ile Thr Asp Glu Ala Thr Glu Gly Gln Phe Met Tyr Val Thr Gly Gly
 180 185 190

Arg Leu Thr Tyr Ser Asn Trp Lys Lys Asp Glu Pro Asn Asn His Gly
 195 200 205

Ser Gly Glu Asp Cys Val Ile Ile Leu Asp Asn Gly Leu Trp Asn Asp
 210 215 220

Ile Ser Cys Gln Ala Ser Phe Lys Ala Val Cys Glu Phe Pro Ala
 225 230 235

<210> 98
 <211> 244
 <212> PRT
 <213> Mus musculus

<400> 98

Met Ser Ile Phe Thr Ser Phe Leu Leu Leu Cys Val Val Thr Val Val
 1 5 10 15

Tyr Ala Glu Thr Leu Thr Glu Gly Val Gln Asn Ser Cys Pro Val Val
 20 25 30

Thr Cys Ser Ser Pro Gly Leu Asn Gly Phe Pro Gly Lys Asp Gly Arg
 35 40 45

Asp Gly Ala Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly Leu Arg Gly
 50 55 60

Leu Gln Gly Pro Pro Gly Lys Val Gly Pro Thr Gly Pro Pro Gly Asn
 65 70 75 80

Pro Gly Leu Lys Gly Ala Val Gly Pro Lys Gly Asp Arg Gly Asp Arg
 85 90 95

Ala Glu Phe Asp Thr Ser Glu Ile Asp Ser Glu Ile Ala Ala Leu Arg
 100 105 110

Ser Glu Leu Arg Ala Leu Arg Asn Trp Val Leu Phe Ser Leu Ser Glu
115 120 125

Lys Val Gly Lys Lys Tyr Phe Val Ser Ser Val Lys Lys Met Ser Leu
130 135 140

Asp Arg Val Lys Ala Leu Cys Ser Glu Phe Gln Gly Ser Val Ala Thr
145 150 155 160

Pro Arg Asn Ala Glu Glu Asn Ser Ala Ile Gln Lys Val Ala Lys Asp
165 170 175

Ile Ala Tyr Leu Gly Ile Thr Asp Val Arg Val Glu Gly Ser Phe Glu
180 185 190

Asp Leu Thr Gly Asn Arg Val Arg Tyr Thr Asn Trp Asn Asp Gly Glu
195 200 205

Pro Asn Asn Thr Gly Asp Gly Glu Asp Cys Val Val Ile Leu Gly Asn
210 215 220

Gly Lys Trp Asn Asp Val Pro Cys Ser Asp Ser Phe Leu Ala Ile Cys
225 230 235 240

Glu Phe Ser Asp

<210> 99
<211> 381
<212> PRT
<213> Macaca nemestrina

<400> 99

Met Ser Asp Ser Lys Glu Pro Arg Leu Gln Gln Leu Asp Leu Leu Glu
1 5 10 15

Glu Glu Gln Leu Gly Gly Val Gly Phe Arg Gln Thr Arg Gly Tyr Lys
20 25 30

Ser Leu Ala Gly Cys Leu Gly His Gly Pro Leu Val Leu Gln Leu Leu
35 40 45

Ser Phe Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro
50 55 60

Ser Ser Leu Ser Gln Gly Gln Ser Lys Gln Asp Ala Ile Tyr Gln Asn
 65 70 75 80

Leu Thr Gln Leu Lys Val Ala Val Ser Glu Leu Ser Glu Lys Ser Lys
 85 90 95

Gln Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu Lys Ala Ala Val Gly
 100 105 110

Glu Leu Pro Glu Lys Ser Lys Gln Gln Glu Ile Tyr Glu Glu Leu Thr
 115 120 125

Arg Leu Arg Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Leu Gln
 130 135 140

Glu Ile Tyr Gln Glu Leu Thr Arg Leu Lys Ala Ala Val Gly Glu Leu
 145 150 155 160

Pro Glu Lys Ser Lys Gln Gln Glu Ile Tyr Gln Glu Leu Ser Arg Leu
 165 170 175

Lys Ala Ala Val Gly Asp Leu Pro Glu Lys Ser Lys Gln Gln Glu Ile
 180 185 190

Tyr Gln Lys Leu Thr Gln Leu Lys Ala Ala Val Asp Gly Leu Pro Asp
 195 200 205

Arg Ser Lys Gln Gln Glu Ile Tyr Gln Glu Leu Ile Gln Leu Lys Ala
 210 215 220

Ala Val Glu Arg Leu Cys His Pro Cys Pro Trp Glu Trp Thr Phe Phe
 225 230 235 240

Gln Gly Asn Cys Tyr Phe Met Ser Asn Ser Gln Arg Asn Trp His Asp
 245 250 255

Ser Ile Thr Ala Cys Gln Glu Val Gly Ala Gln Leu Val Val Ile Lys
 260 265 270

Ser Ala Glu Glu Gln Asn Phe Leu Gln Leu Gln Ser Ser Arg Ser Asn
 275 280 285

Arg Phe Thr Trp Met Gly Leu Ser Asp Leu Asn His Glu Gly Thr Trp
 290 295 300

Gln Trp Val Asp Gly Ser Pro Leu Leu Pro Ser Phe Lys Gln Tyr Trp
 305 310 315 320

Asn Lys Gly Glu Pro Asn Asn Val Gly Glu Glu Asp Cys Ala Glu Phe
 325 330 335

Ser Gly Asn Gly Trp Asn Asp Asp Lys Cys Asn Leu Ala Lys Phe Trp
 340 345 350

Ile Cys Lys Lys Ser Ala Ala Ser Cys Ser Gly Asp Glu Glu Arg Leu
 355 360 365

Leu Ser Pro Ala Pro Thr Thr Pro Asn Pro Pro Pro Ala
 370 375 380

<210> 100
 <211> 246
 <212> PRT
 <213> Carassius auratus

<400> 100

Leu Leu Leu Leu Gln Phe Ala Leu Gln Leu Leu Asp Gly Ala Glu Pro
 1 5 10 15

Gln Asn Leu Asn Cys Pro Ala Tyr Gly Gly Val Pro Gly Thr Pro Gly
 20 25 30

His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Lys Asp Gly Ala
 35 40 45

Ile Gly Pro Lys Gly Glu Lys Gly Glu Ser Gly Val Ser Val Gln Gly
 50 55 60

Pro Pro Gly Lys Ala Gly Pro Pro Gly Thr Ala Gly Glu Lys Gly Glu
 65 70 75 80

Arg Gly Pro Ser Gly Pro Gln Gly Ser Pro Gly Ser Glu Ser Val Leu
 85 90 95

Glu Ser Leu Lys Ser Glu Ile Gln Gln Leu Lys Ala Lys Ile Ala Thr
 100 105 110

Phe Glu Lys Val Ser Ser Val Cys His Phe Arg Lys Val Gly Gln Lys
115 120 125

Tyr Tyr Ile Thr Asp Gly Val Val Gly Asn Phe Asp Gln Gly Leu Lys
130 135 140

Ser Cys Met Glu Phe Gly Gly Thr Met Val Ser Pro Arg Thr Ser Ala
145 150 155 160

Glu Asn Gln Ala Leu Leu Lys Leu Val Val Ser Ser Gly Leu Gly Ser
165 170 175

Lys Lys Pro Tyr Ile Gly Val Thr Asp Arg Lys Thr Glu Gly Gln Phe
180 185 190

Val Asp Thr Glu Gly Lys Gln Leu Thr Phe Thr Asn Trp Gly Pro Gly
195 200 205

Gln Pro Asp Asp Tyr Lys Gly Leu Gln Asp Cys Gly Val Ile Glu Asp
210 215 220

Thr Gly Leu Trp Asp Asp Gly Gly Cys Gly Asp Ile Arg Pro Ile Met
225 230 235 240

Cys Glu Ile Asp Ile Lys
245

<210> 101
<211> 251
<212> PRT
<213> Danio rerio

<400> 101

Met Ala Leu Leu Lys Leu Phe Leu Gly Ala Leu Leu Leu Leu Gln Leu
1 5 10 15

Val Leu Gln Leu Met Ala Gly Ala Ala Asp Pro Gln Ser Leu Asn Cys
20 25 30

Pro Ala Tyr Ala Gly Val Pro Gly Thr Pro Gly His Asn Gly Leu Pro
35 40 45

Gly Arg Asp Gly Arg Val Gly Arg Asp Gly Ala Asn Gly Pro Lys Gly
50 55 60

Glu Lys Gly Glu Pro Gly Val Asn Val Gln Gly Pro Pro Gly Lys Ala
65 70 75 80

Gly Pro Pro Gly Pro Ala Gly Ala Lys Gly Glu Arg Gly Pro Ser Gly
85 90 95

Leu Pro Gly Gln Asp Cys Met Ser Asp Ser Leu Lys Ser Glu Leu Gln
100 105 110

Lys Leu Ser Asp Lys Ile Ala Leu Ile Glu Lys Val Val Asn Phe Lys
115 120 125

Thr Phe Lys Lys Val Gly Gln Lys Tyr Tyr Val Thr Asp Asp Val Glu
130 135 140

Glu Thr Phe Asp Lys Gly Met Gln Tyr Cys Ser Ser Asn Gly Gly Ala
145 150 155 160

Leu Val Leu Pro Arg Thr Leu Glu Glu Asn Ala Leu Leu Lys Val Phe
165 170 175

Val Ser Ser Ala Phe Lys Arg Leu Phe Ile Arg Ile Thr Asp Arg Glu
180 185 190

Lys Glu Gly Glu Phe Val Asp Thr Asp Arg Lys Lys Leu Thr Phe Thr
195 200 205

Asn Trp Gly Pro Asn Gln Pro Asp Asn Tyr Lys Gly Ala Gln Asp Cys
210 215 220

Gly Ala Ile Ala Asp Ser Gly Leu Trp Asp Asp Val Ser Cys Asp Ser
225 230 235 240

Leu Tyr Pro Ile Ile Cys Glu Ile Glu Ile Lys
245 250

<210> 102

<211> 256

<212> PRT

<213> Cyprinus carpio

<400> 102

Met Ala Leu Phe Lys Leu Phe Leu Gly Thr Leu Leu Leu Leu Gln Phe

1	5	10	15
Ala Leu Gln Leu Leu Asp Gly Ala Glu Pro Gln Asn Leu Asn Cys Pro	20	25	30
Ala Tyr Gly Gly Val Pro Gly Thr Pro Gly His Asn Gly Leu Pro Gly	35	40	45
Arg Asp Gly Arg Asp Gly Lys Asp Gly Ala Ile Gly Pro Lys Gly Glu	50	55	60
Lys Gly Glu Ser Gly Val Ser Val Gln Gly Pro Pro Gly Lys Ala Gly	65	70	75
Pro Pro Gly Pro Ala Gly Glu Lys Gly Glu Arg Gly Pro Thr Gly Ser	85	90	95
Gln Gly Ser Pro Gly Ser Glu Ser Val Leu Glu Ser Leu Lys Ser Glu	100	105	110
Ile Gln Gln Leu Lys Ala Lys Ile Ala Thr Phe Glu Lys Val Ala Ser	115	120	125
Val Gly His Phe Arg Gln Val Gly Gln Lys Tyr Tyr Ile Thr Asp Gly	130	135	140
Val Val Gly Thr Phe Asp Gln Gly Leu Lys Phe Cys Lys Asp Phe Gly	145	150	155
Gly Thr Met Val Phe Pro Arg Thr Ser Ala Glu Asn Gln Ala Leu Leu	165	170	175
Lys Leu Val Val Ser Ser Gly Leu Ser Ser Lys Lys Pro Tyr Ile Gly	180	185	190
Val Thr Asp Arg Glu Thr Glu Gly Arg Phe Val Asn Thr Glu Gly Lys	195	200	205
Gln Leu Thr Phe Thr Asn Trp Gly Pro Gly Gln Pro Asp Asp Tyr Lys	210	215	220
Gly Leu Gln Asp Cys Gly Val Ile Glu Asp Ser Gly Leu Trp Asp Asp	225	230	235
			240

Gly Ser Cys Gly Asp Ile Arg Pro Ile Met Cys Glu Ile Asp Asn Lys
245 250 255

<210> 103
<211> 31
<212> PRT
<213> Sus scrofa

<400> 103

Thr Lys Gly Glu Lys Gly Glu Pro Gly Pro Gly Phe Arg Gly Ser Gln
1 5 10 15

Gly Pro Pro Gly Lys Met Gly Pro Pro Gly Asn Ile Gly Glu Thr
20 25 30

<210> 104
<211> 254
<212> PRT
<213> Gallus gallus

<400> 104

Met Thr Leu Leu Gln Pro Phe Ser Ala Leu Leu Leu Cys Leu Ser Leu
1 5 10 15

Met Met Ala Thr Ser Leu Leu Thr Thr Asp Lys Pro Glu Glu Lys Met
20 25 30

Tyr Ser Cys Pro Ile Ile Gln Cys Ser Ala Pro Ala Val Asn Gly Leu
35 40 45

Pro Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys Gly Asp Pro
50 55 60

Gly Glu Gly Leu Arg Gly Leu Gln Gly Leu Pro Gly Lys Ala Gly Pro
65 70 75 80

Gln Gly Leu Lys Gly Glu Val Gly Pro Gln Gly Glu Lys Gly Gln Lys
85 90 95

Gly Glu Arg Gly Ile Val Val Thr Asp Asp Leu His Arg Gln Ile Thr
100 105 110

Asp Leu Glu Ala Lys Ile Arg Val Leu Glu Asp Asp Leu Ser Arg Tyr
115 120 125

Lys Lys Ala Leu Ser Leu Lys Asp Val Val Asn Val Gly Lys Lys Met
 130 135 140

Phe Val Ser Thr Gly Lys Lys Tyr Asn Phe Glu Lys Gly Lys Ser Leu
 145 150 155 160

Cys Ala Lys Ala Gly Ser Val Leu Ala Ser Pro Arg Asn Glu Ala Glu
 165 170 175

Asn Thr Ala Leu Lys Asp Leu Ile Asp Pro Ser Ser Gln Ala Tyr Ile
 180 185 190

Gly Ile Ser Asp Ala Gln Thr Glu Gly Arg Phe Met Tyr Leu Ser Gly
 195 200 205

Gly Pro Leu Thr Tyr Ser Asn Trp Lys Pro Gly Glu Pro Asn Asn His
 210 215 220

Lys Asn Glu Asp Cys Ala Val Ile Glu Asp Ser Gly Lys Trp Asn Asp
 225 230 235 240

Leu Asp Cys Ser Asn Ser Asn Ile Phe Ile Ile Cys Glu Leu
 245 250

<210> 105
 <211> 238
 <212> PRT
 <213> Rattus norvegicus

<400> 105

Met Leu Leu Leu Pro Leu Leu Val Leu Leu Cys Val Val Ser Val Ser
 1 5 10 15

Ser Ser Gly Ser Gln Thr Cys Glu Glu Thr Leu Lys Thr Cys Ser Val
 20 25 30

Ile Ala Cys Gly Arg Asp Gly Arg Asp Gly Pro Lys Gly Glu Lys Gly
 35 40 45

Glu Pro Gly Gln Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu
 50 55 60

Gly Pro Pro Gly Ser Val Gly Ala Pro Gly Ser Gln Gly Pro Lys Gly
 65 70 75 80

Gln Lys Gly Asp Arg Gly Asp Ser Arg Ala Ile Glu Val Lys Leu Ala
85 90 95

Asn Met Glu Ala Glu Ile Asn Thr Leu Lys Ser Lys Leu Glu Leu Thr
100 105 110

Asn Lys Leu His Ala Phe Ser Met Gly Lys Lys Ser Gly Lys Lys Phe
115 120 125

Phe Val Thr Asn His Glu Arg Met Pro Phe Ser Lys Val Lys Ala Leu
130 135 140

Cys Ser Glu Leu Arg Gly Thr Val Ala Ile Pro Arg Asn Ala Glu Glu
145 150 155 160

Asn Lys Ala Ile Gln Glu Val Ala Lys Thr Ser Ala Phe Leu Gly Ile
165 170 175

Thr Asp Glu Val Thr Glu Gly Gln Phe Met Tyr Val Thr Gly Gly Arg
180 185 190

Leu Thr Tyr Ser Asn Trp Lys Lys Asp Glu Pro Asn Asp His Gly Ser
195 200 205

Gly Glu Asp Cys Val Thr Ile Val Asp Asn Gly Leu Trp Asn Asp Ile
210 215 220

Ser Cys Gln Ala Ser His Thr Ala Val Cys Glu Phe Pro Ala
225 230 235

<210> 106

<211> 244

<212> PRT

<213> Rattus norvegicus

<400> 106

Met Ser Leu Phe Thr Ser Phe Leu Leu Leu Cys Val Leu Thr Ala Val
1 5 10 15

Tyr Ala Glu Thr Leu Thr Glu Gly Ala Gln Ser Ser Cys Pro Val Ile
20 25 30

Ala Cys Ser Ser Pro Gly Leu Asn Gly Phe Pro Gly Lys Asp Gly His

35

40

45

Asp Gly Ala Lys Gly Glu Lys Gly Glu Pro Gly Gln Gly Leu Arg Gly
50 55 60

Leu Gln Gly Pro Pro Gly Lys Val Gly Pro Ala Gly Pro Pro Gly Asn
65 70 75 80

Pro Gly Ser Lys Gly Ala Thr Gly Pro Lys Gly Asp Arg Gly Glu Ser
85 90 95

Val Glu Phe Asp Thr Thr Asn Ile Asp Leu Glu Ile Ala Ala Leu Arg
100 105 110

Ser Glu Leu Arg Ala Met Arg Lys Trp Val Leu Leu Ser Met Ser Glu
115 120 125

Asn Val Gly Lys Lys Tyr Phe Met Ser Ser Val Arg Arg Met Pro Leu
130 135 140

Asn Arg Ala Lys Ala Leu Cys Ser Glu Leu Gln Gly Thr Val Ala Thr
145 150 155 160

Pro Arg Asn Ala Glu Glu Asn Arg Ala Ile Gln Asn Val Ala Lys Asp
165 170 175

Val Ala Phe Leu Gly Ile Thr Asp Gln Arg Thr Glu Asn Val Phe Glu
180 185 190

Asp Leu Thr Gly Asn Arg Val Arg Tyr Thr Asn Trp Asn Glu Gly Glu
195 200 205

Pro Asn Asn Val Gly Ser Gly Glu Asn Cys Val Val Leu Leu Thr Asn
210 215 220

Gly Lys Trp Asn Asp Val Pro Cys Ser Asp Ser Phe Leu Val Val Cys
225 230 235 240

Glu Phe Ser Asp

<210> 107

<211> 248

<212> PRT

<213> Homo sapiens

<400> 107

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Ser Met Val Ala
1 5 10 15

Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys
20 25 30

Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
35 40 45

Lys Asp Gly Arg Asp Gly Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln
50 55 60

Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
65 70 75 80

Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
85 90 95

Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
100 105 110

Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
115 120 125

Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
130 135 140

Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala
145 150 155 160

Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
165 170 175

Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
180 185 190

Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
195 200 205

Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
210 215 220

Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
 225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
 245

<210> 108
 <211> 329
 <212> PRT
 <213> Homo sapiens

<400> 108

Met Trp Cys Ile Val Leu Phe Ser Leu Leu Ala Trp Val Tyr Ala Glu
 1 5 10 15

Pro Thr Met Tyr Gly Glu Ile Leu Ser Pro Asn Tyr Pro Gln Ala Tyr
 20 25 30

Pro Ser Glu Val Glu Lys Ser Trp Asp Ile Glu Val Pro Glu Gly Tyr
 35 40 45

Gly Ile His Leu Tyr Phe Thr His Leu Asp Ile Glu Leu Ser Glu Asn
 50 55 60

Cys Ala Tyr Asp Ser Val Gln Ile Ile Ser Gly Asp Thr Glu Glu Gly
 65 70 75 80

Arg Leu Cys Gly Gln Arg Ser Ser Asn Asn Pro His Ser Pro Ile Val
 85 90 95

Glu Glu Phe Gln Val Pro Tyr Asn Lys Leu Gln Val Ile Phe Lys Ser
 100 105 110

Asp Phe Ser Asn Glu Glu Arg Phe Thr Gly Phe Ala Ala Tyr Tyr Val
 115 120 125

Ala Thr Asp Ile Asn Glu Cys Thr Asp Phe Val Asp Val Pro Cys Ser
 130 135 140

His Phe Cys Asn Asn Phe Ile Gly Gly Tyr Phe Cys Ser Cys Pro Pro
 145 150 155 160

Glu Tyr Phe Leu His Asp Asp Met Lys Asn Cys Gly Val Asn Cys Ser

Leu Tyr Glu Ser Gly Asn Pro Thr Trp Ala Ser Asn Thr Gly Gly Leu
 35 40 45 /

Ala Leu His Cys Arg Ala Thr Leu Gln Thr Asp Gly Asn Leu Val Val
 50 55 60

Gln Asn Ser Ala Asn Arg Ile Ile Trp Gln Ser Asn Thr Gly Thr Gly
 65 70 75 80

Thr Asn Gly Asp Tyr Leu Leu Val Leu Gln Lys Asn Gly Asn Val Val
 85 90 95

Ile Val Gly Pro Pro Ile Trp Ala Thr Gly Thr Gly Arg
 100 105

<210> 110
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 110

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Ser Met Val Ala
 1 5 10 15

Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys
 20 25 30

Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
 35 40 45

Lys Asp Gly Cys Asp Gly Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln
 50 55 60

Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
 65 70 75 80

Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
 85 90 95

Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
 100 105 110

Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
 115 120 125

Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
 130 135 140

Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala
 145 150 155 160

Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
 165 170 175

Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
 180 185 190

Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
 195 200 205

Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
 210 215 220

Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
 225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
 245

<210> 111
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 111

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Ser Met Val Ala
 1 5 10 15

Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys
 20 25 30

Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
 35 40 45

Lys Asp Gly Arg Asp Gly Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln
 50 55 60

Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
 65 70 75 80

Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
85 90 95

Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
100 105 110

Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
115 120 125

Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
130 135 140

Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala
145 150 155 160

Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
165 170 175

Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
180 185 190

Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
195 200 205

Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
210 215 220

Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
245

<210> 112
<211> 248
<212> PRT
<213> Homo sapiens

<400> 112

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Leu Ser Met Val Ala
1 5 10 15

Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys

20

25

30

Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
35 40 45

Lys Asp Gly Arg Asp Gly Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln
50 55 60

Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
65 70 75 80

Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
85 90 95

Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
100 105 110

Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
115 120 125

Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
130 135 140

Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala
145 150 155 160

Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
165 170 175

Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
180 185 190

Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
195 200 205

Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
210 215 220

Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
245

<210> 113
 <211> 248
 <212> PRT
 <213> Homo sapiens

 <400> 113

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Leu Ser Met Val Ala
 1 5 10 15

Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys
 20 25 30

Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
 35 40 45

Lys Asp Gly Arg Asp Asp Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln
 50 55 60

Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
 65 70 75 80

Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
 85 90 95

Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
 100 105 110

Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
 115 120 125

Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
 130 135 140

Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala
 145 150 155 160

Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
 165 170 175

Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
 180 185 190

Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
 195 200 205

Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
 210 215 220

Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
 225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
 245

<210> 114
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 114

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Leu Ser Met Val Ala
 1 5 10 15

Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys
 20 25 30

Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
 35 40 45

Lys Asp Gly Arg Asp Gly Thr Lys Glu Glu Lys Gly Glu Pro Gly Gln
 50 55 60

Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
 65 70 75 80

Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
 85 90 95

Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
 100 105 110

Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
 115 120 125

Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
 130 135 140

Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala

145 150 155 160

Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
165 170 175

Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
180 185 190

Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
195 200 205

Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
210 215 220

Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
245

<210> 115
<211> 248
<212> PRT
<213> Homo sapiens

<400> 115

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Leu Ser Met Val Ala
1 5 10 15

Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys
20 25 30

Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
35 40 45

Lys Asp Gly Arg Asp Gly Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln
50 55 60

Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
65 70 75 80

Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
85 90 95

Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
100 105 110

Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
115 120 125

Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
130 135 140

Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala
145 150 155 160

Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
165 170 175

Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
180 185 190

Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
195 200 205

Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
210 215 220

Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
245

<210> 116
<211> 248
<212> PRT
<213> Homo sapiens

<400> 116

Met Ser Leu Phe Pro Ser Leu Pro Leu Leu Leu Ser Met Val Ala
1 5 10 15

Ala Ser Tyr Ser Glu Thr Val Thr Cys Glu Asp Ala Gln Lys Thr Cys
20 25 30

Pro Ala Val Ile Ala Cys Ser Ser Pro Gly Ile Asn Gly Phe Pro Gly
35 40 45

Lys Asp Gly Arg Asp Gly Thr Lys Gly Glu Lys Gly Glu Pro Gly Gln
 50 55 60

Gly Leu Arg Gly Leu Gln Gly Pro Pro Gly Lys Leu Gly Pro Pro Gly
 65 70 75 80

Asn Pro Gly Pro Ser Gly Ser Pro Gly Pro Lys Gly Gln Lys Gly Asp
 85 90 95

Pro Gly Lys Ser Pro Asp Gly Asp Ser Ser Leu Ala Ala Ser Glu Arg
 100 105 110

Lys Ala Leu Gln Thr Glu Met Ala Arg Ile Lys Lys Trp Leu Thr Phe
 115 120 125

Ser Leu Gly Lys Gln Val Gly Asn Lys Phe Phe Leu Thr Asn Gly Glu
 130 135 140

Ile Met Thr Phe Glu Lys Val Lys Ala Leu Cys Val Lys Phe Gln Ala
 145 150 155 160

Ser Val Ala Thr Pro Arg Asn Ala Ala Glu Asn Gly Ala Ile Gln Asn
 165 170 175

Leu Ile Lys Glu Glu Ala Phe Leu Gly Ile Thr Asp Glu Lys Thr Glu
 180 185 190

Gly Gln Phe Val Asp Leu Thr Gly Asn Arg Leu Thr Tyr Thr Asn Trp
 195 200 205

Asn Glu Gly Glu Pro Asn Asn Ala Gly Ser Asp Glu Asp Cys Val Leu
 210 215 220

Leu Leu Lys Asn Gly Gln Trp Asn Asp Val Pro Cys Ser Thr Ser His
 225 230 235 240

Leu Ala Val Cys Glu Phe Pro Ile
 245

<210> 117
 <211> 652
 <212> PRT
 <213> Homo sapiens

<400> 117

Met Ala Thr Ser Met Gly Leu Leu Leu Leu Leu Leu Leu Leu Thr
1 5 10 15

Gln Pro Gly Ala Gly Thr Gly Ala Asp Thr Glu Ala Val Val Cys Val
20 25 30

Gly Thr Ala Cys Tyr Thr Ala His Ser Gly Lys Leu Ser Ala Ala Glu
35 40 45

Ala Gln Asn His Cys Asn Gln Asn Gly Gly Asn Leu Ala Thr Val Lys
50 55 60

Ser Lys Glu Glu Ala Gln His Val Gln Arg Val Leu Ala Gln Leu Leu
65 70 75 80

Arg Arg Glu Ala Ala Leu Thr Ala Arg Met Ser Lys Phe Trp Ile Gly
85 90 95

Leu Gln Arg Glu Lys Gly Lys Cys Leu Asp Pro Ser Leu Pro Leu Lys
100 105 110

Gly Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Pro Tyr Ser Asn Trp
115 120 125

His Lys Glu Leu Arg Asn Ser Cys Ile Ser Lys Arg Cys Val Ser Leu
130 135 140

Leu Leu Asp Leu Ser Gln Pro Leu Leu Pro Asn Arg Leu Pro Lys Trp
145 150 155 160

Ser Glu Gly Pro Cys Gly Ser Pro Gly Ser Pro Gly Ser Asn Ile Glu
165 170 175

Gly Phe Val Cys Lys Phe Ser Phe Lys Gly Met Cys Arg Pro Leu Ala
180 185 190

Leu Gly Gly Pro Gly Gln Val Thr Tyr Thr Thr Pro Phe Gln Thr Thr
195 200 205

Ser Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Ala Ala Asn Val Ala
210 215 220

Cys Gly Glu Gly Asp Lys Asp Glu Thr Gln Ser His Tyr Phe Leu Cys
 225 230 235 240

Lys Glu Lys Ala Pro Asp Val Phe Asp Trp Gly Ser Ser Gly Pro Leu
 245 250 255

Cys Val Ser Pro Lys Tyr Gly Cys Asn Phe Asn Asn Gly Gly Cys His
 260 265 270

Gln Asp Cys Phe Glu Gly Gly Asp Gly Ser Phe Leu Cys Gly Cys Arg
 275 280 285

Pro Gly Phe Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn
 290 295 300

Pro Cys Ser Ser Ser Pro Cys Arg Gly Gly Ala Thr Cys Val Leu Gly
 305 310 315 320

Pro His Gly Lys Asn Tyr Thr Cys Arg Cys Pro Gln Gly Tyr Gln Leu
 325 330 335

Asp Ser Ser Gln Leu Asp Cys Val Asp Val Asp Glu Cys Gln Asp Ser
 340 345 350

Pro Cys Ala Gln Glu Cys Val Asn Thr Pro Gly Gly Phe Arg Cys Glu
 355 360 365

Cys Trp Val Gly Tyr Glu Pro Gly Gly Pro Gly Glu Gly Ala Cys Gln
 370 375 380

Asp Val Asp Glu Cys Ala Leu Gly Arg Ser Pro Cys Ala Gln Gly Cys
 385 390 395 400

Thr Asn Thr Asp Gly Ser Phe His Cys Ser Cys Glu Glu Gly Tyr Val
 405 410 415

Leu Ala Gly Glu Asp Gly Thr Gln Cys Gln Asp Val Asp Glu Cys Val
 420 425 430

Gly Pro Gly Gly Pro Leu Cys Asp Ser Leu Cys Phe Asn Thr Gln Gly
 435 440 445

Ser Phe His Cys Gly Cys Leu Pro Gly Trp Val Leu Ala Pro Asn Gly
 450 455 460

Val Ser Cys Thr Met Gly Pro Val Ser Leu Gly Pro Pro Ser Gly Pro
 465 470 475 480

Pro Asp Glu Glu Asp Lys Gly Glu Lys Glu Gly Ser Thr Val Pro Arg
 485 490 495

Ala Ala Thr Ala Ser Pro Thr Arg Gly Pro Glu Gly Thr Pro Lys Ala
 500 505 510

Thr Pro Thr Thr Ser Arg Pro Ser Leu Ser Ser Asp Ala Pro Ile Thr
 515 520 525

Ser Ala Pro Leu Lys Met Leu Ala Pro Ser Gly Ser Ser Gly Val Trp
 530 535 540

Arg Glu Pro Ser Ile His His Ala Thr Ala Ala Ser Gly Pro Gln Glu
 545 550 555 560

Pro Ala Gly Gly Asp Ser Ser Val Ala Thr Gln Asn Asn Asp Gly Thr
 565 570 575

Asp Gly Gln Lys Leu Leu Leu Phe Tyr Ile Leu Gly Thr Val Val Ala
 580 585 590

Ile Leu Leu Leu Leu Ala Leu Ala Leu Gly Leu Leu Val Tyr Arg Lys
 595 600 605

Arg Arg Ala Lys Arg Glu Glu Lys Lys Glu Lys Lys Pro Gln Asn Ala
 610 615 620

Ala Asp Ser Tyr Ser Trp Val Pro Glu Arg Ala Glu Ser Arg Ala Met
 625 630 635 640

Glu Asn Gln Tyr Ser Pro Thr Pro Gly Thr Asp Cys
 645 650

<210> 118
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 118

Met Asp Leu Leu Trp Ile Leu Pro Ser Leu Trp Leu Leu Leu Leu Gly

1	5	10	15												
Gly	Pro	Ala	Cys	Leu	Lys	Thr	Gln	Glu	His	Pro	Ser	Cys	Pro	Gly	Pro
	20						25						30		
Arg	Glu	Leu	Glu	Ala	Ser	Lys	Val	Val	Leu	Leu	Pro	Ser	Cys	Pro	Gly
	35						40					45			
Ala	Pro	Gly	Ser	Pro	Gly	Glu	Lys	Gly	Ala	Pro	Gly	Pro	Gln	Gly	Pro
	50					55					60				
Pro	Gly	Pro	Pro	Gly	Lys	Met	Gly	Pro	Lys	Gly	Glu	Pro	Gly	Asp	Pro
65					70				75						80
Val	Asn	Leu	Leu	Arg	Cys	Gln	Glu	Gly	Pro	Arg	Asn	Cys	Arg	Glu	Leu
				85					90					95	
Leu	Ser	Gln	Gly	Ala	Thr	Leu	Ser	Gly	Trp	Tyr	His	Leu	Cys	Leu	Pro
		100						105					110		
Glu	Gly	Arg	Ala	Leu	Pro	Val	Phe	Cys	Asp	Met	Asp	Thr	Glu	Gly	Gly
		115					120					125			
Gly	Trp	Leu	Val	Phe	Gln	Arg	Arg	Gln	Asp	Gly	Ser	Val	Asp	Phe	Phe
	130					135					140				
Arg	Ser	Trp	Ser	Ser	Tyr	Arg	Ala	Gly	Phe	Gly	Asn	Gln	Glu	Ser	Glu
145					150					155					160
Phe	Trp	Leu	Gly	Asn	Glu	Asn	Leu	His	Gln	Leu	Thr	Leu	Gln	Gly	Asn
			165						170					175	
Trp	Glu	Leu	Arg	Val	Glu	Leu	Glu	Asp	Phe	Asn	Gly	Asn	Arg	Thr	Phe
		180						185					190		
Ala	His	Tyr	Ala	Thr	Phe	Arg	Leu	Leu	Gly	Glu	Val	Asp	His	Tyr	Gln
		195					200					205			
Leu	Ala	Leu	Gly	Lys	Phe	Ser	Glu	Gly	Thr	Ala	Gly	Asp	Ser	Leu	Ser
	210					215					220				
Leu	His	Ser	Gly	Arg	Pro	Phe	Thr	Thr	Tyr	Asp	Ala	Asp	His	Asp	Ser
225					230					235					240

Ser Asn Ser Asn Cys Ala Val Ile Val His Gly Ala Trp Trp Tyr Ala
245 250 255

Ser Cys Tyr Arg Ser Asn Leu Asn Gly Arg Tyr Ala Val Ser Asp Ala
260 265 270

Ala Ala His Lys Tyr Gly Ile Asp Trp Ala Ser Gly Arg Gly Val Gly
275 280 285

His Pro Tyr Arg Arg Val Arg Met Met Leu Arg
290 295

<210> 119
<211> 169
<212> PRT
<213> Homo sapiens

<400> 119

Met Gly Pro Ala Leu Leu Ala Leu Ser Phe Leu Trp Thr Met Ala Leu
1 5 10 15

Thr Glu Asp Thr Cys Pro Ala Met Leu Glu Tyr Val Ala Leu Asn Ser
20 25 30

Glu Pro Gly Met Ala Ser Lys Asn Pro Ser Arg Arg His Gly Leu Ser
35 40 45

Leu Leu Val Val Asp Gln Gly Pro Gly Ala Arg Gly Val Arg Thr Asp
50 55 60

Gln Gly Pro Ser Gly Ala Asp Pro Gly Ser Leu Glu Leu His Gly Glu
65 70 75 80

Cys Pro Ile Phe Pro Ser Glu Gln Val Ile Leu Thr His His Asn Asn
85 90 95

Tyr Pro Phe Ser Thr Glu Asp Gln Asp Asn Asp Arg Asp Ala Glu Asn
100 105 110

Cys Ala Val His Tyr Gln Gly Ala Trp Trp Tyr Ala Ser Cys His Leu
115 120 125

Ser His Leu Asn Gly Val Tyr Leu Gly Gly Ala Arg Asp Ser Phe Thr
130 135 140

Asn Gly Ile Asn Trp Lys Ser Gly Lys Gly Asn Asn Tyr Ser Tyr Lys
 145 150 155 160

Val Ser Glu Met Lys Val Arg Pro Thr
 165

<210> 120
 <211> 326
 <212> PRT
 <213> Homo sapiens

<400> 120

Met Glu Leu Ser Gly Ala Thr Met Ala Arg Gly Leu Ala Val Leu Leu
 1 5 10 15

Val Leu Phe Leu His Ile Lys Asn Leu Pro Ala Gln Ala Ala Asp Thr
 20 25 30

Cys Pro Glu Val Lys Val Val Gly Leu Glu Gly Ser Asp Lys Leu Thr
 35 40 45

Ile Leu Arg Gly Cys Pro Gly Leu Pro Gly Ala Pro Gly Pro Lys Gly
 50 55 60

Glu Ala Gly Val Ile Gly Glu Arg Gly Glu Arg Gly Leu Pro Gly Ala
 65 70 75 80

Pro Gly Lys Ala Gly Pro Val Gly Pro Lys Gly Asp Arg Gly Glu Lys
 85 90 95

Gly Met Arg Gly Glu Lys Gly Asp Ala Gly Gln Ser Gln Ser Cys Ala
 100 105 110

Thr Gly Pro Arg Asn Cys Lys Asp Leu Leu Asp Arg Gly Tyr Phe Leu
 115 120 125

Ser Gly Trp His Thr Ile Tyr Leu Pro Asp Cys Arg Pro Leu Thr Val
 130 135 140

Leu Cys Asp Met Asp Thr Asp Gly Gly Gly Trp Thr Val Phe Gln Arg
 145 150 155 160

Arg Met Asp Gly Ser Val Asp Phe Tyr Arg Asp Trp Ala Ala Tyr Lys

165

170

175

Gln Gly Phe Gly Ser Gln Leu Gly Glu Phe Trp Leu Gly Asn Asp Asn
180 185 190

Ile His Ala Leu Thr Ala Gln Gly Ser Ser Glu Leu Arg Val Asp Leu
195 200 205

Val Asp Phe Glu Gly Asn His Gln Phe Ala Lys Tyr Lys Ser Phe Lys
210 215 220

Val Ala Asp Glu Ala Glu Lys Tyr Lys Leu Val Leu Gly Ala Phe Val
225 230 235 240

Gly Gly Ser Ala Gly Asn Ser Leu Thr Gly His Asn Asn Asn Phe Phe
245 250 255

Ser Thr Lys Asp Gln Asp Asn Asp Val Ser Ser Ser Asn Cys Ala Glu
260 265 270

Lys Phe Gln Gly Ala Trp Trp Tyr Ala Asp Cys His Ala Ser Asn Leu
275 280 285

Asn Gly Leu Tyr Leu Met Gly Pro His Glu Ser Tyr Ala Asn Gly Ile
290 295 300

Asn Trp Ser Ala Ala Lys Gly Tyr Lys Tyr Ser Tyr Lys Val Ser Glu
305 310 315 320

Met Lys Val Arg Pro Ala
325

<210> 121
<211> 299
<212> PRT
<213> Homo sapiens

<400> 121

Met Asp Leu Leu Trp Ile Leu Pro Ser Leu Trp Leu Leu Leu Gly
1 5 10 15

Gly Pro Ala Cys Leu Lys Thr Gln Glu His Pro Ser Cys Pro Gly Pro
20 25 30

Arg Glu Leu Glu Ala Ser Lys Val Val Leu Leu Pro Ser Cys Pro Gly
 35 40 45

Ala Pro Gly Ser Pro Gly Glu Lys Gly Ala Pro Gly Pro Gln Gly Pro
 50 55 60

Pro Gly Pro Pro Gly Lys Met Gly Pro Lys Gly Glu Pro Gly Asp Pro
 65 70 75 80

Val Asn Leu Leu Arg Cys Gln Glu Gly Pro Arg Asn Cys Arg Glu Leu
 85 90 95

Leu Ser Gln Gly Ala Thr Leu Ser Gly Trp Tyr His Leu Cys Leu Pro
 100 105 110

Glu Gly Arg Ala Leu Pro Val Phe Cys Asp Met Asp Thr Glu Gly Gly
 115 120 125

Gly Trp Leu Val Phe Gln Arg Arg Gln Asp Gly Ser Val Asp Phe Phe
 130 135 140

Arg Ser Trp Ser Ser Tyr Arg Ala Gly Phe Gly Asn Gln Glu Ser Glu
 145 150 155 160

Phe Trp Leu Gly Asn Glu Asn Leu His Gln Leu Thr Leu Gln Gly Asn
 165 170 175

Trp Glu Leu Arg Val Glu Leu Glu Asp Phe Asn Gly Asn Arg Thr Phe
 180 185 190

Ala His Tyr Ala Thr Phe Arg Leu Leu Gly Glu Val Asp His Tyr Gln
 195 200 205

Leu Ala Leu Gly Lys Phe Ser Glu Gly Thr Ala Gly Asp Ser Leu Ser
 210 215 220

Leu His Ser Gly Arg Pro Phe Thr Thr Tyr Asp Ala Asp His Asp Ser
 225 230 235 240

Ser Asn Ser Asn Cys Ala Val Ile Val His Gly Ala Trp Trp Tyr Ala
 245 250 255

Ser Cys Tyr Arg Ser Asn Leu Asn Gly Arg Tyr Ala Val Ser Asp Ala
 260 265 270

Ala Ala His Lys Tyr Gly Ile Asp Trp Ala Ser Gly Arg Gly Val Gly
 275 280 285

His Pro Tyr Arg Arg Val Arg Met Met Leu Arg
 290 295

<210> 122
 <211> 314
 <212> PRT
 <213> Mus musculus

<400> 122

Met Ala Leu Gly Ser Ala Ala Leu Phe Val Leu Thr Leu Thr Val His
 1 5 10 15

Ala Ala Gly Thr Cys Pro Glu Leu Lys Val Leu Asp Leu Glu Gly Tyr
 20 25 30

Lys Gln Leu Thr Ile Leu Gln Gly Cys Pro Gly Leu Pro Gly Ala Ala
 35 40 45

Gly Pro Lys Gly Glu Ala Gly Ala Lys Gly Asp Arg Gly Glu Ser Gly
 50 55 60

Leu Pro Gly Ile Pro Gly Lys Glu Gly Pro Thr Gly Pro Lys Gly Asn
 65 70 75 80

Gln Gly Glu Lys Gly Ile Arg Gly Glu Lys Gly Asp Ser Gly Pro Ser
 85 90 95

Gln Ser Cys Ala Thr Gly Pro Arg Thr Cys Lys Glu Leu Leu Thr Gln
 100 105 110

Gly His Phe Leu Thr Gly Trp Tyr Thr Ile Tyr Leu Pro Asp Cys Arg
 115 120 125

Pro Leu Thr Val Leu Cys Asp Met Asp Thr Asp Gly Gly Gly Trp Thr
 130 135 140

Val Phe Gln Arg Arg Leu Asp Gly Ser Val Asp Phe Phe Arg Asp Trp
 145 150 155 160

Thr Ser Tyr Lys Arg Gly Phe Gly Ser Gln Leu Gly Glu Phe Trp Leu

165	170	175
Gly Asn Asp Asn Ile His Ala Leu Thr Thr Gln Gly Thr Ser Glu Leu 180 185 190		
Arg Val Asp Leu Ser Asp Phe Glu Gly Lys His Asp Phe Ala Lys Tyr 195 200 205		
Ser Ser Phe Gln Ile Gln Gly Glu Ala Glu Lys Tyr Lys Leu Ile Leu 210 215 220		
Gly Asn Phe Leu Gly Gly Gly Ala Gly Asp Ser Leu Thr Pro His Asn 225 230 235 240		
Asn Arg Leu Phe Ser Thr Lys Asp Gln Asp Asn Asp Gly Ser Thr Ser 245 250 255		
Ser Cys Ala Met Gly Tyr His Gly Ala Trp Trp Tyr Ser Gln Cys His 260 265 270		
Thr Ser Asn Leu Asn Gly Leu Tyr Leu Arg Gly Pro His Lys Ser Tyr 275 280 285		
Ala Asn Gly Val Asn Trp Lys Ser Trp Arg Gly Tyr Asn Tyr Ser Cys 290 295 300		
Lys Val Ser Glu Met Lys Val Arg Leu Ile 305 310		
<210> 123		
<211> 102		
<212> PRT		
<213> Homo sapiens		
<400> 123		
Met Glu Leu Asp Arg Ala Val Gly Val Leu Gly Ala Ala Thr Leu Leu 1 5 10 15		
Leu Ser Phe Leu Gly Met Ala Trp Ala Leu Gln Ala Ala Asp Thr Cys 20 25 30		
Pro Glu Val Lys Met Val Gly Leu Glu Gly Ser Asp Lys Leu Thr Ile 35 40 45		

Leu Arg Gly Cys Pro Gly Leu Pro Gly Ala Pro Gly Asp Lys Gly Glu
50 55 60

Ala Gly Thr Asn Gly Lys Arg Gly Glu Arg Gly Pro Pro Gly Pro Pro
65 70 75 80

Gly Lys Ala Gly Pro Pro Gly Pro Asn Gly Ala Pro Gly Glu Pro Gln
85 90 95

Pro Cys Leu Thr Gly Asp
100

<210> 124
<211> 182
<212> PRT
<213> Homo sapiens

<400> 124

Met Glu Leu Asp Arg Ala Val Gly Val Leu Gly Ala Ala Thr Leu Leu
1 5 10 15

Leu Ser Phe Leu Gly Met Ala Trp Ala Leu Gln Ala Ala Asp Thr Cys
20 25 30

Pro Glu Val Lys Met Val Gly Leu Glu Gly Ser Asp Lys Leu Thr Ile
35 40 45

Leu Arg Gly Cys Pro Gly Leu Pro Gly Ala Pro Gly Asp Lys Gly Glu
50 55 60

Ala Gly Thr Asn Gly Lys Arg Gly Glu Arg Gly Pro Pro Gly Pro Pro
65 70 75 80

Gly Lys Ala Gly Pro Pro Gly Pro Asn Gly Ala Pro Gly Glu Pro Gln
85 90 95

Pro Cys Leu Thr Gly Pro Arg Thr Cys Lys Asp Leu Leu Asp Arg Gly
100 105 110

His Phe Leu Ser Gly Trp His Thr Ile Tyr Leu Pro Asp Cys Arg Pro
115 120 125

Leu Thr Val Leu Cys Asp Met Asp Thr Asp Gly Gly Gly Trp Thr Val
130 135 140

Ser Val Gly Leu Gly Arg Gly Gly Gln Pro Gly Ser Pro Gly Gly Gln
 145 150 155 160

Ala Ala His Leu Val Gly Glu His Thr Leu Glu Phe Ser Ile Leu Leu
 165 170 175

Val Gly Asp Ser Gln Arg
 180

<210> 125
 <211> 275
 <212> PRT
 <213> Homo sapiens

<400> 125

Met Glu Leu Asp Arg Ala Val Gly Val Leu Gly Ala Ala Thr Leu Leu
 1 5 10 15

Leu Ser Phe Leu Gly Met Ala Trp Ala Leu Gln Ala Ala Asp Thr Cys
 20 25 30

Pro Gly Glu Arg Gly Pro Pro Gly Pro Pro Gly Lys Ala Gly Pro Pro
 35 40 45

Gly Pro Asn Gly Ala Pro Gly Glu Pro Gln Pro Cys Leu Thr Gly Pro
 50 55 60

Arg Thr Cys Lys Asp Leu Leu Asp Arg Gly His Phe Leu Ser Gly Trp
 65 70 75 80

His Thr Ile Tyr Leu Pro Asp Cys Arg Pro Leu Thr Val Leu Cys Asp
 85 90 95

Met Asp Thr Asp Gly Gly Gly Trp Thr Val Phe Gln Arg Arg Val Asp
 100 105 110

Gly Ser Val Asp Phe Tyr Arg Asp Trp Ala Thr Tyr Lys Gln Gly Phe
 115 120 125

Gly Ser Arg Leu Gly Glu Phe Trp Leu Gly Asn Asp Asn Ile His Ala
 130 135 140

Leu Thr Ala Gln Gly Thr Ser Glu Leu Arg Val Asp Leu Val Asp Phe
 145 150 155 160

Glu Asp Asn Tyr Gln Phe Ala Lys Tyr Arg Ser Phe Lys Val Ala Asp
165 170 175

Glu Ala Glu Lys Tyr Asn Leu Val Leu Gly Ala Phe Val Glu Gly Ser
180 185 190

Ala Gly Asp Ser Leu Thr Phe His Asn Asn Gln Ser Phe Ser Thr Lys
195 200 205

Asp Gln Asp Asn Asp Leu Asn Thr Gly Asn Cys Ala Val Met Phe Gln
210 215 220

Gly Ala Trp Trp Tyr Lys Asn Cys His Val Ser Asn Leu Asn Gly Arg
225 230 235 240

Tyr Leu Arg Gly Thr His Gly Ser Phe Ala Asn Gly Ile Asn Trp Lys
245 250 255

Ser Gly Lys Gly Tyr Asn Tyr Ser Tyr Lys Val Ser Glu Met Lys Val
260 265 270

Arg Pro Ala
275

<210> 126
<211> 326
<212> PRT
<213> Homo sapiens

<400> 126

Met Glu Leu Ser Gly Ala Thr Met Ala Arg Gly Leu Ala Val Leu Leu
1 5 10 15

Val Leu Phe Leu His Ile Lys Asn Leu Pro Ala Gln Ala Ala Asp Thr
20 25 30

Cys Pro Glu Val Lys Val Val Gly Leu Glu Gly Ser Asp Lys Leu Thr
35 40 45

Ile Leu Arg Gly Cys Pro Gly Leu Pro Gly Ala Pro Gly Pro Lys Gly
50 55 60

Glu Ala Gly Val Ile Gly Glu Arg Gly Glu Arg Gly Leu Pro Gly Ala

65		70		75		80
Pro Gly Lys Ala Gly Pro Val Gly Pro Lys Gly Asp Arg Gly Glu Lys	85		90		95	
Gly Met Arg Gly Glu Lys Gly Asp Ala Gly Gln Ser Gln Ser Cys Ala	100		105		110	
Thr Gly Pro Arg Asn Cys Lys Asp Leu Leu Asp Arg Gly Tyr Phe Leu	115		120		125	
Ser Gly Trp His Thr Ile Tyr Leu Pro Asp Cys Arg Pro Leu Thr Val	130		135		140	
Leu Cys Asp Met Asp Thr Asp Gly Gly Gly Trp Thr Val Phe Gln Arg	145		150		155	160
Arg Met Asp Gly Ser Val Asp Phe Tyr Arg Asp Trp Ala Ala Tyr Lys	165		170		175	
Gln Gly Phe Gly Ser Gln Leu Gly Glu Phe Trp Leu Gly Asn Asp Asn	180		185		190	
Ile His Ala Leu Thr Ala Gln Gly Ser Ser Glu Leu Arg Val Asp Leu	195		200		205	
Val Asp Phe Glu Gly Asn His Gln Phe Ala Lys Tyr Lys Ser Phe Lys	210		215		220	
Val Ala Asp Glu Ala Glu Lys Tyr Lys Leu Val Leu Gly Ala Phe Val	225		230		235	240
Gly Gly Ser Ala Gly Asn Ser Leu Thr Gly His Asn Asn Asn Phe Phe	245		250		255	
Ser Thr Lys Asp Gln Asp Asn Asp Val Ser Ser Ser Asn Cys Ala Glu	260		265		270	
Lys Phe Gln Gly Ala Trp Trp Tyr Ala Asp Cys His Ala Ser Asn Leu	275		280		285	
Asn Gly Leu Tyr Leu Met Gly Pro His Glu Ser Tyr Ala Asn Gly Ile	290		295		300	

Asn Trp Ser Ala Ala Lys Gly Tyr Lys Tyr Ser Tyr Lys Val Ser Glu
305 310 315 320

Met Lys Val Arg Pro Ala
325

<210> 127
<211> 313
<212> PRT
<213> Homo sapiens

<400> 127

Met Glu Leu Asp Arg Ala Val Gly Val Leu Gly Ala Ala Thr Leu Leu
1 5 10 15

Leu Ser Phe Leu Gly Met Ala Trp Ala Leu Gln Ala Ala Asp Thr Cys
20 25 30

Asn Asp Asn Ile His Ala Leu Thr Ala Gln Gly Thr Ser Glu Leu Arg
180 185 190

Val Asp Leu Val Asp Phe Glu Asp Asn Tyr Gln Phe Ala Lys Tyr Arg
195 200 205

Ser Phe Lys Val Ala Asp Glu Ala Glu Lys Tyr Asn Leu Val Leu Gly
210 215 220

Ala Phe Val Glu Gly Ser Ala Gly Asp Ser Leu Thr Phe His Asn Asn
225 230 235 240

Gln Ser Phe Ser Thr Lys Asp Gln Asp Asn Asp Leu Asn Thr Gly Asn
245 250 255

Cys Ala Val Met Phe Gln Gly Ala Trp Trp Tyr Lys Asn Cys His Val
260 265 270

Ser Asn Leu Asn Gly Arg Tyr Leu Arg Gly Thr His Gly Ser Phe Ala
275 280 285

Asn Gly Ile Asn Trp Lys Ser Gly Lys Gly Tyr Asn Tyr Ser Tyr Lys
290 295 300

Val Ser Glu Met Lys Val Arg Pro Ala
305 310

<210> 128
<211> 335
<212> PRT
<213> Rattus norvegicus

<400> 128

Met Trp Trp Pro Met Leu Trp Ala Phe Pro Val Leu Leu Cys Leu Cys
1 5 10 15

Ser Ser Gln Ala Leu Gly Gln Glu Ser Gly Ala Cys Pro Asp Val Lys
20 25 30

Ile Val Gly Leu Gly Ala Gln Asp Lys Val Ala Val Ile Gln Ser Cys
35 40 45

Pro Ser Phe Pro Gly Pro Pro Gly Pro Lys Gly Glu Pro Gly Ser Pro

50

55

60

Ala Gly Arg Gly Glu Arg Gly Leu Gln Gly Ser Pro Gly Lys Met Gly
65 70 75 80

Pro Pro Gly Ser Lys Gly Glu Pro Gly Thr Met Gly Pro Pro Gly Val
85 90 95

Lys Gly Glu Lys Gly Glu Arg Gly Thr Ala Ser Pro Leu Gly Gln Lys
100 105 110

Glu Leu Gly Asp Ala Leu Cys Arg Arg Gly Pro Arg Ser Cys Lys Asp
115 120 125

Leu Leu Thr Arg Gly Ile Phe Leu Thr Gly Trp Tyr Thr Ile Tyr Leu
130 135 140

Pro Asp Cys Arg Pro Leu Thr Val Leu Cys Asp Met Asp Val Asp Gly
145 150 155 160

Gly Gly Trp Thr Val Phe Gln Arg Arg Val Asp Gly Ser Ile Asn Phe
165 170 175

Tyr Arg Asp Trp Asp Ser Tyr Lys Arg Gly Phe Gly Asn Leu Gly Thr
180 185 190

Glu Phe Trp Leu Gly Asn Asp Tyr Leu His Leu Leu Thr Ala Asn Gly
195 200 205

Asn Gln Glu Leu Arg Val Asp Leu Arg Glu Phe Gln Gly Gln Thr Ser
210 215 220

Phe Ala Lys Tyr Ser Ser Phe Gln Val Ser Gly Glu Gln Glu Lys Tyr
225 230 235 240

Lys Leu Thr Leu Gly Gln Phe Leu Glu Gly Thr Ala Gly Asp Ser Leu
245 250 255

Thr Lys His Asn Asn Met Ala Phe Ser Thr His Asp Gln Asp Asn Asp
260 265 270

Thr Asn Gly Gly Lys Asn Cys Ala Ala Leu Phe His Gly Ala Trp Trp
275 280 285

Tyr His Asp Cys His Gln Ser Asn Leu Asn Gly Arg Tyr Leu Pro Gly
 290 295 300

Ser His Glu Ser Tyr Ala Asp Gly Ile Asn Trp Leu Ser Gly Arg Gly
 305 310 315 320

His Arg Tyr Ser Tyr Lys Val Ala Glu Met Lys Ile Arg Ala Ser
 325 330 335

<210> 129
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 129

Met Glu Leu Asp Arg Ala Val Gly Val Leu Gly Ala Ala Thr Leu Leu
 1 5 10 15

Leu Ser Phe Leu Gly Met Ala Trp Ala Leu Gln Ala Ala Asp Thr Cys
 20 25 30

Pro Glu Val Lys Met Val Gly Leu Glu Gly Ser Asp Lys Leu Thr Ile
 35 40 45

Leu Arg Gly Cys Pro Gly Leu Pro Gly Ala Pro Gly Asp Lys Gly Glu
 50 55 60

Ala Gly Thr Asn Gly Lys Arg Gly Glu Arg Gly Pro Pro Gly Pro Pro
 65 70 75 80

Gly Lys Ala Gly Pro Pro Gly Pro Asn Gly Ala Pro Gly Glu Pro Gln
 85 90 95

Pro Cys Leu Thr Gly Pro Arg Thr Cys Lys Asp Leu Leu Asp Arg Gly
 100 105 110

His Phe Leu Ser Gly Trp His Thr Ile Tyr Leu Pro Asp Cys Arg Pro
 115 120 125

Leu Thr Val Leu Cys Asp Met Asp Thr Asp Gly Gly Gly Trp Thr Val
 130 135 140

Phe Gln Arg Arg Val Asp Gly Ser Val Asp Phe Tyr Arg Asp Trp Ala
 145 150 155 160

Thr Tyr Lys Gln Gly Phe Gly Ser Arg Leu Gly Glu Phe Trp Leu Gly
165 170 175

Asn Asp Asn Ile His Ala Leu Thr Ala Gln Gly Thr Ser Glu Leu Arg
180 185 190

Val Asp Leu Val Asp Phe Glu Asp Asn Tyr Gln Phe Ala Lys Tyr Arg
195 200 205

Ser Phe Lys Val Ala Asp Glu Ala Glu Lys Tyr Asn Leu Val Leu Gly
210 215 220

Ala Phe Val Glu Gly Ser Ala Gly Asp Ser Leu Thr Phe His Asn Asn
225 230 235 240

Gln Ser Phe Ser Thr Lys Asp Gln Asp Asn Asp Leu Asn Thr Gly Asn
245 250 255

Cys Ala Val Met Phe Gln Gly Ala Trp Trp Tyr Lys Asn Cys His Val
260 265 270

Ser Asn Leu Asn Gly Arg Tyr Leu Arg Gly Thr His Gly Ser Phe Ala
275 280 285

Asn Gly Ile Asn Trp Lys Ser Gly Lys Gly Tyr Asn Tyr Ser Tyr Lys
290 295 300

Val Ser Glu Met Lys Val Arg Pro Ala
305 310

<210> 130
<211> 306
<212> PRT
<213> Mus musculus

<400> 130

Leu Gly Ser Ala Ala Leu Phe Val Leu Thr Leu Thr Val His Ala Ala
1 5 10 15

Gly Thr Cys Pro Glu Leu Lys Val Leu Asp Leu Glu Gly Tyr Lys Gln
20 25 30

Leu Thr Ile Leu Gln Gly Cys Pro Gly Leu Pro Gly Ala Ala Gly Pro

35

40

45

Lys Gly Glu Ala Gly Ala Lys Gly Asp Arg Gly Glu Ser Gly Leu Pro
50 55 60

Gly Ile Pro Gly Lys Glu Gly Pro Thr Gly Pro Lys Gly Asn Gln Gly
65 70 75 80

Glu Lys Gly Ile Arg Gly Glu Lys Gly Asp Ser Gly Pro Ser Gln Ser
85 90 95

Cys Ala Thr Gly Pro Arg Thr Cys Lys Glu Leu Leu Thr Gln Gly His
100 105 110

Phe Leu Thr Gly Trp Tyr Thr Ile Tyr Leu Pro Asp Cys Arg Pro Met
115 120 125

Thr Val Leu Cys Asp Met Asp Thr Asp Gly Gly Gly Trp Thr Val Phe
130 135 140

Gln Arg Arg Leu Asp Gly Ser Val Asp Phe Phe Arg Asp Trp Thr Ser
145 150 155 160

Tyr Lys Arg Gly Phe Gly Ser Gln Leu Gly Glu Phe Trp Leu Gly Asn
165 170 175

Asp Asn Ile His Ala Leu Thr Thr Gln Gly Thr Ser Glu Leu Arg Val
180 185 190

Asp Leu Ser Asp Phe Glu Gly Lys His Asp Phe Ala Lys Tyr Ser Ser
195 200 205

Phe Gln Ile Gln Gly Glu Ala Glu Lys Tyr Lys Leu Ile Leu Gly Asn
210 215 220

Phe Leu Gly Gly Gly Ala Gly Asp Ser Leu Thr Pro His Asn Asn Arg
225 230 235 240

Leu Phe Ser Thr Lys Asp Gln Asp Asn Asp Gly Ser Thr Ser Ser Cys
245 250 255

Ala Met Gly Tyr His Gly Ala Trp Trp Tyr Ser Gln Cys His Thr Ser
260 265 270

Asn Leu Asn Gly Leu Tyr Leu Arg Gly Pro His Lys Ser Tyr Ala Asn
 275 280 285

Gly Val Asn Trp Lys Ser Trp Arg Gly Tyr Asn Tyr Ser Cys Lys Val
 290 295 300

Ser Glu
 305

<210> 131
 <211> 334
 <212> PRT
 <213> Mus musculus

<400> 131

Met Gln Trp Pro Thr Leu Trp Ala Phe Ser Gly Leu Leu Cys Leu Cys
 1 5 10 15

Pro Ser Gln Ala Leu Gly Gln Glu Arg Gly Ala Cys Pro Asp Val Lys
 20 25 30

Val Val Gly Leu Gly Ala Gln Asp Lys Val Val Val Ile Gln Ser Cys
 35 40 45

Pro Gly Phe Pro Gly Pro Pro Gly Pro Lys Gly Glu Pro Gly Ser Pro
 50 55 60

Ala Gly Arg Gly Glu Arg Gly Phe Gln Gly Ser Pro Gly Lys Met Gly
 65 70 75 80

Pro Ala Gly Ser Lys Gly Glu Pro Gly Thr Met Gly Pro Pro Gly Val
 85 90 95

Lys Gly Glu Lys Gly Asp Thr Gly Ala Ala Pro Ser Leu Gly Glu Lys
 100 105 110

Glu Leu Gly Asp Thr Leu Cys Gln Arg Gly Pro Arg Ser Cys Lys Asp
 115 120 125

Leu Leu Thr Arg Gly Ile Phe Leu Thr Gly Trp Tyr Thr Ile His Leu
 130 135 140

Pro Asp Cys Arg Pro Leu Thr Val Leu Cys Asp Met Asp Val Asp Gly
 145 150 155 160

Gly Gly Trp Thr Val Phe Gln Arg Arg Val Asp Gly Ser Ile Asp Phe
165 170 175

Phe Arg Asp Trp Asp Ser Tyr Lys Arg Gly Phe Gly Asn Leu Gly Thr
180 185 190

Glu Phe Trp Leu Gly Asn Asp Tyr Leu His Leu Leu Thr Ala Asn Gly
195 200 205

Asn Gln Glu Leu Arg Val Asp Leu Gln Asp Phe Gln Gly Lys Gly Ser
210 215 220

Tyr Ala Lys Tyr Ser Ser Phe Gln Val Ser Glu Glu Gln Glu Lys Tyr
225 230 235 240

Lys Leu Thr Leu Gly Gln Phe Leu Glu Gly Thr Ala Gly Asp Ser Leu
245 250 255

Thr Lys His Asn Asn Met Ser Phe Thr Thr His Asp Gln Asp Asn Asp
260 265 270

Ala Asn Ser Met Asn Cys Ala Ala Leu Phe His Gly Ala Trp Trp Tyr
275 280 285

His Asn Cys His Gln Ser Asn Leu Asn Gly Arg Tyr Leu Ser Gly Ser
290 295 300

His Glu Ser Tyr Ala Asp Gly Ile Asn Trp Gly Thr Gly Gln Gly His
305 310 315 320

His Tyr Ser Tyr Lys Val Ala Glu Met Lys Ile Arg Ala Ser
325 330

<210> 132

<211> 319

<212> PRT

<213> Rattus norvegicus

<400> 132

Met Val Leu Gly Ser Ala Ala Leu Phe Val Leu Ser Leu Cys Val Thr
1 5 10 15

Glu Leu Thr Leu His Ala Ala Asp Thr Cys Pro Glu Val Lys Val Leu

20

25

30

Asp Leu Glu Gly Ser Asn Lys Leu Thr Ile Leu Gln Gly Cys Pro Gly
 35 40 45

Leu Pro Gly Ala Leu Gly Pro Lys Gly Glu Ala Gly Ala Lys Gly Asp
 50 55 60

Arg Gly Glu Ser Gly Leu Pro Gly His Pro Gly Lys Ala Gly Pro Thr
 65 70 75 80

Gly Pro Lys Gly Asp Arg Gly Glu Lys Gly Val Arg Gly Glu Lys Gly
 85 90 95

Asp Thr Gly Pro Ser Gln Ser Cys Ala Thr Gly Pro Arg Thr Cys Lys
 100 105 110

Glu Leu Leu Thr Arg Gly Tyr Phe Leu Thr Gly Trp Tyr Thr Ile Tyr
 115 120 125

Leu Pro Asp Cys Arg Pro Leu Thr Val Leu Cys Asp Met Asp Thr Asp
 130 135 140

Gly Gly Gly Trp Thr Val Phe Gln Arg Arg Ile Asp Gly Thr Val Asp
 145 150 155 160

Phe Phe Arg Asp Trp Thr Ser Tyr Lys Gln Gly Phe Gly Ser Gln Leu
 165 170 175

Gly Glu Phe Trp Leu Gly Asn Asp Asn Ile His Ala Leu Thr Thr Gln
 180 185 190

Gly Thr Asn Glu Leu Arg Val Asp Leu Ala Asp Phe Asp Gly Asn His
 195 200 205

Asp Phe Ala Lys Tyr Ser Ser Phe Gln Ile Gln Gly Glu Ala Glu Lys
 210 215 220

Tyr Lys Leu Ile Leu Gly Asn Phe Leu Gly Gly Gly Ala Gly Asp Ser
 225 230 235 240

Leu Thr Ser Gln Asn Asn Met Leu Phe Ser Thr Lys Asp Gln Asp Asn
 245 250 255

Asp Gln Gly Ser Ser Asn Cys Ala Val Arg Tyr His Gly Ala Trp Trp
 260 265 270

Tyr Ser Asp Cys His Thr Ser Asn Leu Asn Gly Leu Tyr Leu Arg Gly
 275 280 285

Leu His Lys Ser Tyr Ala Asn Gly Val Asn Trp Lys Ser Trp Lys Gly
 290 295 300

Tyr Asn Tyr Ser Tyr Lys Val Ser Glu Met Lys Val Arg Leu Ile
 305 310 315

<210> 133
 <211> 334
 <212> PRT
 <213> Mus musculus

<400> 133

Met Gln Trp Pro Thr Leu Trp Ala Phe Ser Gly Leu Leu Cys Leu Cys
 1 5 10 15

Pro Ser Gln Ala Leu Gly Gln Glu Arg Gly Ala Cys Pro Asp Val Lys
 20 25 30

Val Val Gly Leu Gly Ala Gln Asp Lys Val Val Val Ile Gln Ser Cys
 35 40 45

Pro Gly Phe Pro Gly Pro Pro Gly Pro Lys Gly Glu Pro Gly Ser Pro
 50 55 60

Ala Gly Arg Gly Glu Arg Gly Phe Gln Gly Ser Pro Gly Lys Met Gly
 65 70 75 80

Pro Ala Gly Ser Lys Gly Glu Pro Gly Thr Met Gly Pro Pro Gly Val
 85 90 95

Lys Gly Glu Lys Gly Asp Thr Gly Ala Ala Pro Ser Leu Gly Glu Lys
 100 105 110

Glu Leu Gly Asp Thr Leu Cys Gln Arg Gly Pro Arg Ser Cys Lys Asp
 115 120 125

Leu Leu Thr Arg Gly Ile Phe Leu Thr Gly Trp Tyr Thr Ile His Leu
 130 135 140

Pro Asp Cys Arg Pro Leu Thr Val Leu Cys Asp Met Asp Val Asp Gly
 145 150 155 160

Gly Gly Trp Thr Val Phe Gln Arg Arg Val Asp Gly Ser Ile Asp Phe
 165 170 175

Phe Arg Asp Trp Asp Ser Tyr Lys Arg Gly Phe Gly Asn Leu Gly Thr
 180 185 190

Glu Phe Trp Leu Gly Asn Asp Tyr Leu His Leu Leu Thr Ala Asn Gly
 195 200 205

Asn Gln Glu Leu Arg Val Asp Leu Gln Asp Phe Gln Gly Lys Gly Ser
 210 215 220

Tyr Ala Lys Tyr Ser Ser Phe Gln Val Ser Glu Glu Gln Glu Lys Tyr
 225 230 235 240

Lys Leu Thr Leu Gly Gln Phe Leu Glu Gly Thr Ala Gly Asp Ser Leu
 245 250 255

Thr Lys His Asn Asn Met Ser Phe Thr Thr His Asp Gln Asp Asn Asp
 260 265 270

Ala Asn Ser Met Asn Cys Ala Ala Leu Phe His Gly Ala Trp Trp Tyr
 275 280 285

His Asn Cys His Gln Ser Asn Leu Asn Gly Arg Tyr Leu Ser Gly Ser
 290 295 300

His Glu Ser Tyr Ala Asp Gly Ile Asn Trp Gly Thr Gly Gln Gly His
 305 310 315 320

His Tyr Ser Tyr Lys Val Ala Glu Met Lys Ile Arg Ala Ser
 325 330

<210> 134
 <211> 326
 <212> PRT
 <213> Homo sapiens

<400> 134

Met Glu Leu Ser Gly Ala Thr Met Ala Arg Gly Leu Ala Val Leu Leu

1	5	10	15
Val Leu Phe Leu His Ile Lys Asn Leu Pro Ala Gln Ala Ala Asp Thr	20	25	30
Cys Pro Glu Val Lys Val Val Gly Leu Glu Gly Ser Asp Lys Leu Thr	35	40	45
Ile Leu Arg Gly Cys Pro Gly Leu Pro Gly Ala Pro Gly Pro Lys Gly	50	55	60
Glu Ala Gly Val Ile Gly Glu Arg Gly Glu Arg Gly Leu Pro Gly Ala	65	70	75
Pro Gly Lys Ala Gly Pro Val Gly Pro Lys Gly Asp Arg Gly Glu Lys	85	90	95
Gly Met Arg Gly Glu Lys Gly Asp Ala Gly Gln Ser Gln Ser Cys Ala	100	105	110
Thr Gly Pro Arg Asn Cys Lys Asp Leu Leu Asp Arg Gly Tyr Phe Leu	115	120	125
Ser Gly Trp His Asn Ile Tyr Leu Pro Asp Cys Arg Pro Leu Thr Val	130	135	140
Leu Cys Asp Met Asp Thr Asp Gly Gly Gly Trp Thr Val Phe Gln Arg	145	150	155
Arg Met Asp Gly Ser Val Asp Phe Tyr Arg Asp Trp Ala Ala Tyr Lys	165	170	175
Gln Gly Phe Gly Ser Gln Leu Gly Glu Phe Trp Leu Gly Asn Asp Asn	180	185	190
Ile His Ala Leu Thr Ala Gln Gly Ser Ser Glu Leu Arg Val Asp Leu	195	200	205
Val Asp Phe Glu Gly Asn His Gln Phe Ala Lys Tyr Lys Ser Phe Lys	210	215	220
Val Ala Asp Glu Ala Glu Lys Tyr Lys Leu Val Leu Gly Ala Phe Val	225	230	235
			240

Gly Gly Ser Ala Gly Asn Ser Leu Thr Gly His Asn Asn Asn Phe Phe
 245 250 255

Ser Thr Lys Asp Gln Asp Asn Asp Val Ser Ser Ser Asn Cys Ala Glu
 260 265 270

Lys Phe Gln Gly Ala Trp Trp Tyr Ala Asp Cys His Ala Ser Ser Leu
 275 280 285

Asn Gly Leu Tyr Leu Met Gly Pro His Glu Ser Tyr Ala Asn Gly Ile
 290 295 300

Asn Trp Ser Ala Ala Lys Gly Tyr Lys Tyr Ser Tyr Lys Val Ser Glu
 305 310 315 320

Met Lys Val Arg Pro Ala
 325

<210> 135
 <211> 323
 <212> PRT
 <213> Sus scrofa

<400> 135

Met Asp Thr Arg Gly Val Ala Ala Ala Met Arg Pro Leu Val Leu Leu
 1 5 10 15

Val Ala Phe Leu Cys Thr Ala Ala Pro Ala Leu Asp Thr Cys Pro Glu
 20 25 30

Val Lys Val Val Gly Leu Glu Gly Ser Asp Lys Leu Ser Ile Leu Arg
 35 40 45

Gly Cys Pro Gly Leu Pro Gly Ala Ala Gly Pro Lys Gly Glu Ala Gly
 50 55 60

Ala Ser Gly Pro Lys Gly Gly Gln Gly Pro Pro Gly Ala Pro Gly Glu
 65 70 75 80

Pro Gly Pro Pro Gly Pro Lys Gly Asp Arg Gly Glu Lys Gly Glu Pro
 85 90 95

Gly Pro Lys Gly Glu Ser Trp Glu Thr Glu Gln Cys Leu Thr Gly Pro
 100 105 110

Arg Thr Cys Lys Glu Leu Leu Thr Arg Gly His Ile Leu Ser Gly Trp
 115 120 125

His Thr Ile Tyr Leu Pro Asp Cys Gln Pro Leu Thr Val Leu Cys Asp
 130 135 140

Met Asp Thr Asp Gly Gly Gly Trp Thr Val Phe Gln Arg Arg Ser Asp
 145 150 155 160

Gly Ser Val Asp Phe Tyr Arg Asp Trp Ala Ala Tyr Lys Arg Gly Phe
 165 170 175

Gly Ser Gln Leu Gly Glu Phe Trp Leu Gly Asn Asp His Ile His Ala
 180 185 190

Leu Thr Ala Gln Gly Thr Asn Glu Leu Arg Val Asp Leu Val Asp Phe
 195 200 205

Glu Gly Asn His Gln Phe Ala Lys Tyr Arg Ser Phe Gln Val Ala Asp
 210 215 220

Glu Ala Glu Lys Tyr Met Leu Val Leu Gly Ala Phe Val Glu Gly Asn
 225 230 235 240

Ala Gly Asp Ser Leu Thr Ser His Asn Asn Ser Leu Phe Thr Thr Lys
 245 250 255

Asp Gln Asp Asn Asp Gln Tyr Ala Ser Asn Cys Ala Val Leu Tyr Gln
 260 265 270

Gly Ala Trp Trp Tyr Asn Ser Cys His Val Ser Asn Leu Asn Gly Arg
 275 280 285

Tyr Leu Gly Gly Ser His Gly Ser Phe Ala Asn Gly Val Asn Trp Ser
 290 295 300

Ser Gly Lys Gly Tyr Asn Tyr Ser Tyr Lys Val Ser Glu Met Lys Phe
 305 310 315 320

Arg Ala Thr

<210> 136
 <211> 319
 <212> PRT
 <213> Homo sapiens

<400> 136

Met Ala Arg Gly Leu Ala Val Leu Leu Val Leu Phe Leu His Ile Lys
 1 5 10 15

Asn Leu Pro Ala Gln Ala Ala Asp Thr Cys Pro Glu Val Lys Val Val
 20 25 30

Gly Leu Glu Gly Ser Asp Lys Leu Thr Ile Leu Arg Gly Cys Pro Gly
 35 40 45

Leu Pro Gly Ala Pro Gly Pro Lys Gly Glu Ala Gly Val Ile Gly Glu
 50 55 60

Arg Gly Glu Arg Gly Leu Pro Gly Ala Pro Gly Lys Ala Gly Pro Val
 65 70 75 80

Gly Pro Lys Gly Asp Arg Gly Glu Lys Gly Met Arg Gly Glu Lys Gly
 85 90 95

Asp Ala Gly Gln Ser Gln Ser Cys Ala Thr Gly Pro Arg Asn Cys Lys
 100 105 110

Asp Leu Leu Asp Arg Gly Tyr Phe Leu Ser Gly Trp His Thr Ile Tyr
 115 120 125

Leu Pro Asp Cys Arg Pro Leu Thr Val Leu Cys Asp Met Asp Thr Asp
 130 135 140

Gly Gly Gly Trp Thr Val Phe Gln Arg Arg Met Asp Gly Ser Val Asp
 145 150 155 160

Phe Tyr Arg Asp Trp Ala Ala Tyr Lys Gln Gly Phe Gly Ser Gln Leu
 165 170 175

Gly Glu Phe Trp Leu Gly Asn Asp Asn Ile His Ala Leu Thr Ala Gln
 180 185 190

Gly Ser Ser Glu Leu Arg Val Asp Leu Val Asp Phe Glu Gly Asn His
 195 200 205

Gln Phe Ala Lys Tyr Lys Ser Phe Lys Val Ala Asp Glu Ala Glu Lys
 210 215 220

Tyr Lys Leu Val Leu Gly Ala Phe Val Gly Gly Ser Ala Gly Asn Ser
 225 230 235 240

Leu Thr Gly His Asn Asn Asn Phe Phe Ser Thr Lys Asp Gln Asp Asn
 245 250 255

Asp Val Ser Ser Ser Asn Cys Ala Glu Lys Phe Gln Gly Ala Trp Trp
 260 265 270

Tyr Ala Asp Cys His Ala Ser Asn Leu Asn Gly Leu Tyr Leu Met Gly
 275 280 285

Pro His Glu Ser Tyr Ala Asn Gly Ile Asn Trp Ser Ala Ala Lys Gly
 290 295 300

Tyr Lys Tyr Ser Tyr Lys Val Ser Glu Met Lys Val Arg Pro Ala
 305 310 315

<210> 137
 <211> 187
 <212> PRT
 <213> Drosophila melanogaster

<400> 137

Met Lys Ser Cys Phe Phe Val Leu Phe Leu Trp Thr Leu Leu Phe Glu
 1 5 10 15

Val Gly Gln Ser Ser Pro His Thr Cys Pro Ser Gly Ser Pro Asn Gly
 20 25 30

Ile His Gln Leu Met Leu Pro Glu Glu Glu Pro Phe Gln Val Thr Gln
 35 40 45

Cys Lys Thr Thr Ala Arg Asp Trp Ile Val Ile Gln Arg Arg Leu Asp
 50 55 60

Gly Ser Val Asn Phe Asn Gln Ser Trp Phe Ser Tyr Lys Asp Gly Phe
 65 70 75 80

Gly Asp Pro Asn Gly Glu Phe Phe Ile Gly Leu Gln Lys Leu Tyr Leu
 85 90 95

Met Thr Arg Glu Gln Pro His Glu Leu Phe Ile Gln Leu Lys His Gly
100 105 110

Pro Gly Ala Thr Val Tyr Ala His Phe Asp Asp Phe Gln Val Asp Ser
115 120 125

Glu Thr Glu Leu Tyr Lys Leu Glu Arg Val Gly Lys Tyr Ser Gly Thr
130 135 140

Ala Gly Asp Ser Leu Arg Tyr His Ile Asn Lys Arg Phe Ser Thr Phe
145 150 155 160

Asp Arg Asp Asn Asp Glu Ser Ser Lys Asn Cys Ala Ala Glu His Gly
165 170 175

Gly Gly Trp Trp Phe His Ser Cys Leu Ser Arg
180 185